



**Scientific
Atlanta**

User's Guide for the

Digital Video Recorder

for the Explorer® 8000™ DVR

Explorer® 8000HD™ DVR

Explorer® 8300™ DVR

Explorer® 8300HD™ DVR

Get More Out of Your TV...

Watch

- Your favorite shows *anytime* you want...on your schedule
- Two programs (live or pre-recorded) at once with the PIP feature

Record

- Two live programs at the same time
- All future episodes of your favorite programs by performing a simple, one-time setup

Watch & Record

- Watch one program while recording another
- Watch two programs at once (using the PIP feature) and record one of them
- Watch two programs and record both of them
- Watch a pre-recorded program while recording one or two other programs

Play Back Recordings on Other TVs

- Use the Multi-Room® DVR* (MR-DVR) system to play back recordings on up to 4 TVs at the same time
- Use parental controls to block play back of recordings in any room

*The MR-DVR feature is only available on the 8300 MR-DVR models.

Contents

Explore Your Entertainment Options	1
Take Control of Live Programs	2
Get Started	3
Connect the Explorer DVR to Your TV	4
Prepare the Remote Control to Work With Your TV and DVR	5
Prepare the Explorer HD DVR To Work With Your TV	6
Adjust Your HDTV Picture	8
Adjust Your Picture Format Using Quick Settings	8
Adjust Your HD Picture Using General Settings	9
Make the Most of Your Entertainment Options	12
Find Out When Your Favorite Programs Are On	13
Display the Program Guide	13
Select a Program From the Program Guide	13
Search for a Program by Channel, Title, or Theme	14
Search for a Program by Date	15
Select a Future Program From the Program Guide	15
Control Live TV and Recordings	16
Pause a Live Program or a Recording	16
Use Instant Replay	17
Rewind or Fast-Forward a Live or Recorded Program	17
Use Slow Motion	19
Watch Action Frame by Frame	19
Catch Up With a Live TV Program	19
Watch Two Programs At Once	20
Turn PIP On and Off	20
Activate PIP From the Program Guide	20
Change the Channel of the PIP Screen	21
Move the Location of the PIP Screen	21
Swap the Main Screen and the PIP Screen	22
Record and Play Back Programs	24
Record a Program That You Are Watching Live	25
Record a Program From the Program Guide	26
Record Multiple Episodes of a Future Program	27
Record Two Programs at Once	28
Record a Pay-Per-View Event	28
Schedule Future Pay-Per-View Recordings	28
Display a List of Your Recorded Programs	29
Play Back a Recording	29
Display a List of Programs You Have Scheduled To Be Recorded in the Future	30
Cancel a Scheduled Recording	30
Cancel a Recording That Is in Progress	30
Use Power-Save Mode	31

Manage Programs and Recordings	32
Block Programs With Parental Control	32
Block Recordings With Parental Control	35
Control the Viewing of Programs and Recordings in Your MR-DVR System	37
Find Out How Much Recording Space Has Been Used	40
Maximize Your Storage Space	40
Automatically Erase Oldest Recordings	41
Copy Recordings From Your DVR to a VCR Tape	42
Change the Default Save Time Setting for Future Recordings	43
Change the Save Time of a Recording You Have Saved	44
Erase a Recording	44
Recording to a SATA Hard Disk Drive (Optional)	45
Find Answers to Frequently Asked Questions	47
Questions About the DVR	47
Questions About Controlling a Live Program or Recording	47
Questions About Watching Two Programs at Once	48
Questions About Recording and Playing Back Programs	48
Questions About the MR-DVR Client Set-Top	51
Questions About Watching, Recording, and Playing Back HD Programs	51
Get More Information or Assistance	53
Frequently Asked Questions	53
Online Documentation or the Explorer eClub	53
Customer Support	53
Index	54
Quick Tips	inside of back cover
Explorer Screens	inside of back cover
AllTouch® Remote Control	inside of foldout

Explore Your Entertainment Options

With the Explorer® Digital Video Recorder (DVR), you can explore TV in a way never possible before:

- Record your favorite programs when you're busy
- Create your own personal video library by recording and storing your favorite programs
- Watch your recordings anytime you want
- Pause live TV for up to 1 hour without missing a minute
- Use instant replay anytime you want on live TV or while playing back a recording
- Share recordings with other Scientific-Atlanta digital set-tops in your MR-DVR system

This guide describes how to use the following Explorer DVRs:

- Explorer 8000 DVR for use with standard-definition TVs (SDTVs)
- Explorer 8000HD DVR for use with high-definition TVs (HDTVs)
- Explorer 8300 DVR for use with SDTVs
- Explorer 8300HD DVR for use with HDTVs

Note: Some features described in this document are not available on all DVR models. For more information, contact your cable service provider.

Explorer Model	*Storage Capacity
8000	Up to 50 hours of non-HD programs (based on an 80 GB capacity hard drive)
8000HD	Up to 90 hours of non-HD programs Up to 20 hours of HD programs (based on a 160 GB capacity hard drive)
8300	Up to 50 hours of non-HD programs (based on an 80 GB capacity hard drive)
8300HD	Up to 90 hours of non-HD programs Up to 20 hours of HD programs (based on a 160 GB capacity hard drive)

*The total program hours that can be stored depends upon the format and data rate of the programming source, as well as the DVR hard drive storage capacity.

Take Control of Live Programs

Anytime you tune to a live program, the DVR begins buffering the program — that is, making a temporary recording of it — so you can:

- Pause the live program for up to one hour
- Rewind the program up to the point when you tuned to the channel
- Fast-forward through the portion you have rewound
- Instantly replay the last eight seconds of TV anytime you want
- Save the buffered program to the DVR by recording it

Buffered Programs

The channel buffer automatically buffers the last hour of the channel that you are watching and continues to buffer it until you:



Watch the channel for longer than an hour

After an hour, the DVR removes the earlier minutes of the program from its buffer so that only the last hour is kept in the buffer.



Tune to another program

When you change channels, the DVR begins to buffer the program you have just tuned to. It removes the program you were watching from the buffer.



Turn off the DVR

When you turn off the DVR, it erases everything from its buffer.



Have the DVR record the program

When you press **Record** , the DVR records the portion of the live program it has buffered, and begins recording the rest of the live program as it is broadcast.

Get Started

Getting started is easy. After unpacking your DVR equipment, follow these steps to set up your DVR.

1. Determine the types of connections you need to make, based on your TV type (HDTV or SDTV) and home theater connection requirements.
2. Connect the DVR to your TV based on the connection information described in “Connect the Explorer DVR to Your TV” on page 4.

Note: Your cable service provider may have already installed and connected the DVR for you. If not, follow the instructions on page 4 to make the appropriate connections.

3. Prepare the remote control as described in “Prepare the Remote Control to Work With Your TV and DVR” on page 5.
4. Configure the picture display for your TV using the Setup Wizard. See “Prepare the Explorer DVR to Work With Your TV” on page 6.

Connect the Explorer DVR to Your TV

The DVR family supports a number of connection options to support connections to older TVs, SDTVs with composite inputs, and HDTVs with component inputs or DVI/HDMI inputs. The following table describes the available DVR outputs, including when the output should be used.

For more information about connectivity requirements and connection diagrams, refer to the connectivity guide for your DVR model:

- *Connecting the Explorer® 8300™ Digital Video Recorder*, part number 4003987
- *Connecting the Explorer® 8300HD™ Digital Video Recorder*, part number 4003986
- *Explorer 8000 Home Entertainment Server User's Installation Guide*, part number 4002771
- *Explorer 8000HD Home Entertainment Server User's Guide*, part number 4001025

Output Type		Description
HDMI		Some HDTVs have an High-Definition Multimedia Interface (HDMI™) or Digital Video Interface (DVI) connector. The HDMI connector provides both a digital video and audio connection. The HDMI connector is available only on the 8300HD DVR. The DVI connector is available only on the 8000HD DVR. The DVI connector provides a digital video connection. If your HDTV has a DVI connector and you have an 8300HD DVR, you need an HDMI-to-DVI adaptor and you need to connect a separate audio connection. Notes: When using the HDMI connection with TVs that do not support Dolby® Digital decoding, additional configuration steps are needed. For more information, see "Important Note Regarding the HDMI Interface on the 8300HD DVR" on the next page. If you connect to an HDTV using the DVI or HDMI ports, you are automatically placed in "HD" mode.
or		
DVI		
Pr, Pb, Y		The PrPbY ports, or component outputs, can be used with either an HDTV or a non-HDTV with component inputs. If connecting to a TV using component outputs, you must use the Setup Wizard to select the output formats that your particular TV supports. See "Prepare the Explorer DVR to Work With Your TV" on page 6. Note: If connected to an HDTV using the component or composite (Y output, only) outputs, the Setup Wizard prompts you to choose "HD" or "SD" mode.
Y Output (on HD unit configured for SD operation)		This connection is used for connecting to an SDTV.
or TV Video Output		
S-Video Out		This connection can be used for connecting to an SDTV.
Cable Out		This connection can be used when connecting to an SDTV.

Important Note Regarding the HDMI Interface on the 8300HD DVR

The HDMI interface will automatically configure the audio output for a format supported by the television. Because not all TVs support a Dolby Digital input, the HDMI interface will automatically select a 2-channel stereo audio configuration instead of Dolby Digital. When the output is configured for 2-channel audio, this configuration is carried over to the other digital audio outputs of the 8300HD. This configuration prevents your Home Theater System or Dolby Digital decoder from providing the full Dolby Digital surround sound effect.

On the 8300HD, you may override the automatic selection of audio by the HDMI interface by completing the following steps.

1. Press **Settings**  twice. The General Settings menu appears.
2. Press **Move Up**  or **Move Down**  to select **Audio: Digital Out**.
3. Press **Move Right**  to select **Dolby Digital**. This setting will send Dolby Digital audio to the HDMI, DIGITAL AUDIO OUT, and OPTICAL AUDIO OUT connectors on the 8300HD.
4. Press **Accept**  to accept the option for the DVR.
5. Press **Exit**  to return to normal viewing.

Note: If the TV (video/audio monitor) connected to the 8300HD using HDMI is not Dolby Digital capable, it may not produce audio through its speakers when the Audio: Digital Out setting on the 8300HD is set to Dolby Digital. You can either switch the Audio: Digital Out setting back to HDMI when you are not using the home theater or Dolby digital decoder, or you can connect the baseband audio outputs (OUT 1 Audio Left and Right) to the TV.

Prepare the Remote Control to Work With Your TV and DVR

Set up the remote control (remote) in two steps.

1. Prepare it to work with the make and model of your TV. (For additional information on preparing the remote to work with your make and model of TV, refer to the guide that is included with your remote.)
2. Place it in Cable mode as described in the picture at right.

Note: Your cable service provider may have already placed the remote in Cable mode for you. You can verify this by pressing the Power  key to see how the DVR responds.

Tip: To find a key on the remote, open the foldout on the back cover of this guide to see the illustration of the remote.

To place the remote in Cable mode, press **Cable** . The Cable  key blinks red when pressed to indicate that it is in Cable mode. When the remote is in Cable mode and you press Power , the green Power LED on the front of the DVR turns on or off depending on the current status of the DVR.

Note: Each time you press a key on the remote, one of the four mode keys (, , , or ) blinks red to indicate the mode the remote is in.



Prepare the Explorer HD DVR to Work With Your TV

The Setup Wizard is a program that helps you set up your DVR to provide the best picture quality that your TV supports. Based on the type of TV you have, the Wizard allows you to select all picture formats supported by your SDTV or HDTV.

Note: If you are connecting an SD DVR to an SDTV, no setup is required. Skip this section and go to “Make the Most of Your Entertainment Options” on page 12.

For more information about how programs are formatted and displayed on an HDTV, refer to the *Explorer HDTV Setup Wizard User's Guide*, part number 4003114.

Important: Any time that you change connections to use the component (PrPbY) ports, you must run the Setup Wizard again to make sure your TV is receiving its supported picture formats.

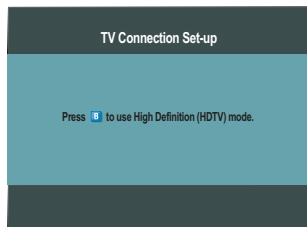
Start the Setup Wizard

To start the Setup Wizard, follow these steps:

1. Make sure that the DVR is powered **OFF**, but still plugged into an active power outlet, and properly connected to the TV. See “Connect the Explorer DVR to Your TV” on page 4.
2. Configure the TV to display the input where the DVR is connected (see your TV user's guide for more information).
3. Turn the TV **ON**.
4. With the DVR powered **OFF**, press **Guide** and **Info** at the same time. The **TV Connection Set-up** screen appears.
5. The **TV Connection Set-up** screen toggles between an HD and SD mode selection screen every 20 seconds until you make a selection.

Note: The DVR front panel displays either **HD** or **SD** while the TV Connection Set-up HD mode or SD mode screens display on the TV screen.

Press the **Guide** and **Info** keys at the same time.



6. Choose one of the following options:
 - To choose HD mode, press **B** on the remote to start the setup.
 - To choose SD mode, press **A** on the remote to start the setup.

After selecting HD or SD mode, the **Setup Options** screen appears.



7. Choose one of the following options:
 - To choose the **Easy Setup** option, press **A**; then, go to the **Easy Setup Instructions** on page 7.
 - To choose the **Advanced Setup** option, press **B**; then, go to the **Advanced Setup Instructions** on page 7.

Easy Setup Instructions

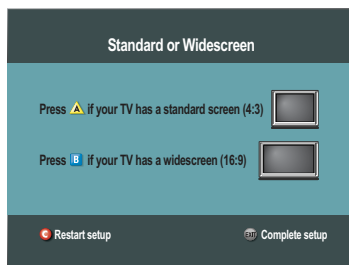
1. Press **▲** or **B** to select the type of TV screen you have. The setup is complete.
2. Press **Power** **POWER** to begin watching TV.

Notes:

- If you pressed **▲** for the standard screen (4:3) TV setting, the TV is set to receive programming in 480i format on non-HD channels and 1080i format on HD channels.
- If you pressed **B** for the widescreen (16:9) setting, the TV is set to only receive programming in 1080i format (even on non-HD channels).

Tip: After you complete the setup, you can press **#** to stretch or zoom the picture.

3. You're ready to begin using your DVR to watch and record programs. Go to "Make the Most of Your Entertainment Options" on page 12.



Advanced Setup Instructions

1. Press **▲** or **B** to select the type of TV screen you have.
2. Follow the on-screen instructions to select your picture formats.

Note: Refer to the user's guide that came with your TV for information about supported display formats.

3. Press **Select** **SELECT** to toggle between the Save and Remove options, or press **B** to see how the next format looks on your TV screen.

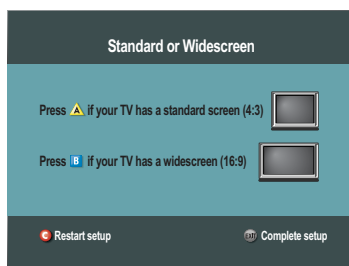
Important: If you see a black screen or if the picture quality is not optimal, **do not** press **Select** **SELECT**. Press **B** again to view the next screen format.

4. After saving the picture formats, press **Exit** **EXIT**. The setup is complete.
5. Press **Power** **POWER** to begin watching TV.

Tip: After you complete the setup, you can press **#** to stretch or zoom the picture.

6. You're ready to begin using your DVR to watch and record programs. Go to "Make the Most of Your Entertainment Options" on page 12.

Note: If you need to make changes to your HDTV picture display, go to "Adjust Your HDTV Picture" on page 8.



Adjust Your HDTV Picture

After using the Setup Wizard, if you feel that your HDTV picture quality needs improvement, you can adjust the HDTV picture display using options within the Quick Settings and General Settings menus.

If you do not need to make an adjustment to your picture quality, skip this section and go to “Making the Most of Your Entertainment Options” on page 12.

Adjust Your Picture Format Using Quick Settings

Because the picture quality of a program is affected by many factors, such as how the program was originally recorded and the method used to broadcast the program, you may find that displaying certain programs in a specific picture format provides the picture quality you prefer.

Note: If your HDTV uses a composite, DVI, or HDMI port, it automatically selects the best picture format for the program you are watching. DVI ports, however, can choose only from the picture formats that your HDTV supports.

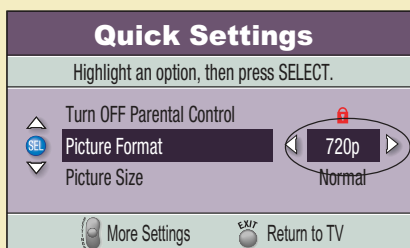
Follow these steps to change the picture format.

1. Press **Settings** . The Quick Settings menu appears.
2. Press **Move Up**  or **Move Down**  to select **Picture Format**.
3. Press **Move Right**  to select the picture format setting.
4. Press **Move Right**  again to display another picture format setting. Each time you press **Move Right** , another setting displays.

Note: If you used the Setup Wizard to select picture format settings, those that you selected are available here.

5. Press **Select**  to view the picture with this setting.
6. If necessary, repeat these steps to find a setting that you prefer.

Quick Settings: Picture Format



Only the picture format settings that you selected using the Setup Wizard are available for selection. For example, if you used the Setup Wizard's Easy Setup method, only the settings 480i and 1080i are available for you to select.

Note: If Pass-Through or Auto DVI/HDMI are selected in the General Settings: Set Picture Format (see page 10), you cannot change the Picture Format in the Quick Settings menu. You can only stretch and zoom the picture with the # key on the remote or within Quick Settings.

Adjust Your HD Picture Using General Settings

You can adjust how your DVR displays pictures using the Picture Format and TV Borders General Settings menu options.

Set Your Default Picture Format

By automating picture adjustments, the DVR uses a method that you choose to automatically select the picture format that provides the best display possible. The methods that you can select from depend partly on the type of video connection your HDTV uses. (See the box on the next page for more details.)

Follow these steps to select a method the DVR will use to display pictures.

1. Press **Settings**  twice. The General Settings menu appears.
2. Press **Move Up**  or **Move Down**  to select **Set: Picture Format**.
3. Press **Move Right**  to select the picture format setting.
4. Press **Move Up**  or **Move Down**  to display each option.

Note: See the box on this page for an explanation of each option.

5. Press  **Accept** to accept the option for the DVR.

Note: The 8300 DVR front panel displays the selected option and scan rate. For example, if you selected Pass-Through, the 8300 DVR front panel displays **AUTO** and **1080i**.

6. Press **Exit**  to return to normal viewing.

Display Formats for Digital Sources

The following table shows the relationship between the picture format method, the signal the DVR receives, and the format of the picture that displays on your TV screen.

If you chose this picture format method:	And the DVR receives this signal:	The HDTV displays the picture in this format:
Fixed	1080i, 720p, 480i, 480p	The picture format you selected from the Quick Settings menu. (For details, see page 10.)
Pass-Through or Auto-DVI	1080 720p 480i 480p	1080 720p 480i 480p
Upconvert 1	480i/480p 720p/1080i	480p 1080i
Upconvert 2	480i/480p 720p/1080i	480p 720p

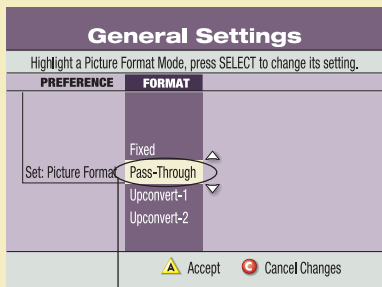
General Settings: Set Picture Format

Upconvert 1 and Upconvert 2 -

When possible, the DVR tries to improve the display of a program by upconverting the program.

Fixed - All programming is displayed using the picture format you last selected. This setting remains *fixed* until you select a new picture format from the Quick Settings menu. For details, see the previous page.

Pass-Through or Auto DVI - Programming is automatically formatted with the picture format that provides the best display. If your HDTV uses a DVI port, select the Auto DVI option.



If your HDTV uses a DVI or HDMI port, **Auto DVI/HDMI** appears here instead of **Pass-Through**.

Important: To realize the full benefit and functionality of the Pass-Through feature, your TV must be capable of handling all six TV display modes (1080i, 720p, 480p widescreen, 480i widescreen, 480p standard, and 480i standard). If your TV handles less than six TV display modes, Pass-Through functionality will, in some cases, operate like the Upconvert-1 or Upconvert-2 functions. Refer to the user's guide that came with your TV for information about supported display formats.

If you determine that your TV is capable of handling the six display modes, then you must select all six picture formats using the Setup Wizard program. See "Advanced Setup Instructions" on page 7 of this guide.

Important: Do not connect the HDMI (DVI) output to an HDTV that does not support High-Definition Copy Protection (HDCP). If you connect the HDMI (DVI) output cable to an HDTV that does not support HDCP, you cannot see any video output. A message appears instructing you to disconnect the HDMI connection and watch video output through the PrPbY component connectors.

For more details about these options, see the table on the previous page.

Change the Darkness of Bars Used in Picture Displays

The DVR automatically adds bars to certain types of program formats to improve the picture's display.

If you decide to use these automatic settings to watch programs, you can change the darkness of the bars from Light (the default setting) to Medium or Dark. To change the darkness of the bars that the DVR uses, follow these steps:

1. Press **Settings**  twice. The General Settings menu appears.
2. Press **Move Up**  or **Move Down**  to select the option **Set: TV Borders**.
3. Press **Move Right**  to display the Borders options (Light, Medium, or Dark).
4. Press **Move Up**  or **Move Down**  to select the shade you want to apply to the bars (Light, Medium, or Dark).
5. Press  **Accept** so that the DVR accepts this setting. The DVR displays the Set: TV Borders option with your selection shown.
6. To exit from this screen and return to live TV, press **Exit** .



Caution: When displayed for too long, any fixed image, such as station logos, Pillarbox bars, or Letterbox bars, can reduce the ability of HDTVs to display colors evenly across the screen. When this occurs, the image becomes permanently burned into the screen leaving a faint image of it on the screen. This occurrence is known as "burn in." For ways to reduce the effects of burn in, refer to the user's guide that came with your HDTV.

Make the Most of Your Entertainment Options

After you connect the DVR to your TV, set up the remote, and run the Setup Wizard, you are ready to begin watching and recording programs using your DVR.

In the following sections, discover how you can:

- Find out when programs are broadcast using the Program Guide
- Watch programs and pay-per-view events
- Control live TV and recordings
- Watch two programs at once with the PIP feature
- Record and play back programs
- Manage programs and recordings

Find Out When Your Favorite Programs Are On

From the Program Guide, you can search for programs by channel number, program title, theme, or broadcast date. After you find a program, you can tune to it directly from the guide. This section provides instructions to:

- Display the Program Guide
- Select a program from the Program Guide
- Search for a program by channel, title, or theme
- Search for a program by date

Tip: To find a key on the remote, open the foldout on the back cover of this guide to see the illustration of the remote.

Display the Program Guide

1. Press **Guide** . The Program Guide appears and lists the next 7 days of programs.
2. To close the guide, press **Guide**  or **Exit** . The Program Guide closes and displays the program that was playing in the Quarter screen.

Program Guide



The Information area displays information about the program selected in the Program Guide.

The Browse By area automatically lists programs by channel number, but you can also choose to list programs by title, theme, or date.

The Quarter screen shows the program you are tuned to.

The Broadcast Time Bar lists the times programs are scheduled to broadcast.

The Programs area displays the title of each program.

The Options area displays additional options available.

Select a Program From the Program Guide

1. Press **Guide** . The Program Guide appears and lists the next 7 days of programs.
2. Press the **Arrow** keys  to move through the program listings to select the program you want to watch.
3. Press **Select** . If the program is currently on, the Program Guide closes and the program you selected appears in full-screen TV.

Note: If the program is scheduled for a future time, the Future Program Options screen appears. See "Select a Future Program From the Program Guide" on page 15 for more information.

Search for a Program by Channel, Title, or Theme

The DVR automatically lists programs by channel number, but you can change this and list programs by title or theme.

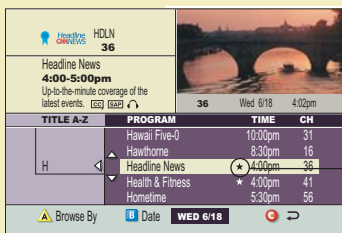
1. Press **Guide** . The Program Guide appears and lists the next 7 days of programs.
2. Press **Browse By**. The Browse By area of the Program Guide displays the options: Title, Channel, and Theme.
3. Press **Move Up** or **Move Down** to select one of the following options:
 - **Channel**, which lists programs numerically by channel number
 - **Title**, which lists programs alphabetically by program title
 - **Theme**, which lists programs by theme, such as adventure, comedy, sports, or news
4. Press **Select** . The Browse By area of the Program Guide displays the programs according to the option you selected.
5. Press to return to the previous screen displayed.

Browse By Options



Browse By Channel

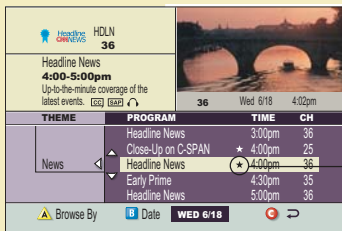
Channel lists programs numerically by channel number.



Browse By Title

Title lists programs alphabetically by program title.

Note: A star next to a program indicates that the program is currently being broadcast.



Browse By Theme

Theme lists programs by theme, such as adventure, comedy, sports, or news.

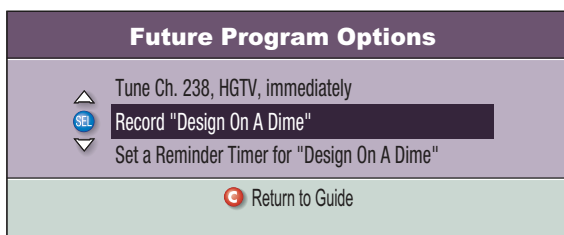
Note: A star next to a program indicates that the program is currently being broadcast.

Search for a Program by Date

1. Press **Guide** . The Program Guide appears and lists the next 7 days of programs.
2. Press **B** **Date**. The Browse By area of the Program Guide displays the next 7 dates.
3. Press **Move Up**  or **Move Down**  to select a date.
4. Press **Select** . The Program Guide displays the programs scheduled to be broadcast on that date.
5. Press **C**  to return to the previous screen displayed.

Select a Future Program From the Program Guide

1. Press **Guide** . The Program Guide appears and lists the next 7 days of programs.
2. Press the **Arrow** keys  to move through the program listings to select the program you want to watch.
3. Press **Select** . The Future Program Options screen appears.



4. Choose one of the following Future Program options:
 - To tune to the future program channel immediately, choose the “Tune [channel number/name], immediately” option.
 - To record the future program, choose the “Record [program name]” option. See “Record Multiple Episodes of a Future Program” on page 27 for instructions.
 - To set a reminder timer for the future program, choose the “Set Reminder Timer for [program name]” option. When selected, a reminder screen is displayed on-screen prior to the start of the future program to remind you to watch the program.
5. Press **Select**  to save your settings.

Tip: When you select a future program in the Program Guide, you may also press **Record**  to bypass the Future Program Options screen and record the future program. See “Record a Program From the Program Guide” on page 26 for instructions.

Control Live TV and Recordings

With the DVR, you control how you watch a program because, in many ways, you can treat live programs like they are recordings. The DVR lets you control how you watch a program in all of the following ways:

- Pause a live program or a recording
- Replay the last 8 seconds of a live program or a recording using instant replay
- Rewind a live program or a recording to watch a portion of it again
- Fast-forward through portions of a live program that you have rewind, or through portions of a recording that you don't want to watch
- Slow the action of a live program or a recording to watch more closely
- Watch action frame by frame in forward or reverse
- Catch up with a live program to see what is currently being broadcast

Tip: To find a key on the remote, open the foldout on the back cover of this guide to see the illustration of the remote.

Pause a Live Program or a Recording

1. Press **Pause** . The action freezes and the Status Bar appears briefly in the Pause position at the bottom of the screen. For programs that you are watching live, the DVR remains in pause for up to 1 hour.
2. Press **Pause**  again or press **Play**  to resume playing the program.

Status Bar

The **Status Bar** appears whenever you pause, rewind, or fast-forward a live or recorded program.

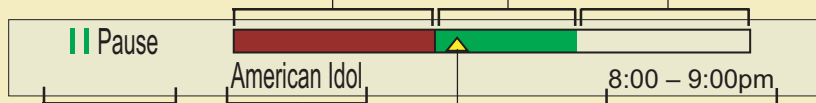
Tip: Some TV programs display “scrolling” information across the bottom of the TV screen (for example, news and sports “tickers”). The DVR on-screen status bar and other graphics may cover up information scrolling on-screen. Pressing **Exit**  removes the status bar and any on-screen DVR graphics or banners.

For a live program, red indicates missed programming (from the time the program began until the time you tuned to the program).

For a recording, red indicates the portion of programming that was not recorded.

Green indicates the portion of the program that the DVR has buffered or saved.

For a live program, yellow indicates the portion of the program not yet broadcast.



This area represents the current viewing status (paused in this case).

The name of the program appears beneath the bar.

The yellow pointer indicates where you are in the program.

For a live program, the time of the broadcast displays.

For a recording, the program length displays.

Use Instant Replay

Press **Instant Replay**  to watch the last 8 seconds of a live or recorded program again.

Note: The first time you press **Instant Replay** , the DVR replays the last 8 seconds of a live or recorded program. Every additional press jumps back 8 more seconds.

Rewind or Fast-Forward a Live or Recorded Program

Rewind a live or recorded program to watch a portion of it again, or fast-forward through portions you don't want to watch. You can rewind or fast-forward in any of three different speeds, as shown in the box on the next page.

1. Make sure that the program or recording is not in Pause mode. If it is paused, press **Play** .
2. Rewind or fast-forward the live program or recording by following these steps.

To	Press	Result
Rewind		Action reverses and the Status Bar appears in the Rewind position at the bottom of the screen. The pointer on the Status Bar moves to the left as you rewind the program. Note: When you rewind a live program or recording to the point where you first tuned to it, the recording automatically begins replaying at normal speed. Speed Up: Press Rewind  one or two more times to incrementally increase the speed. Press it again and the program resumes playing at normal speed.

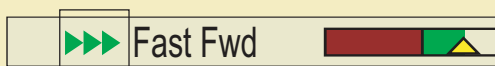
To	Press	Result
Fast-forward		Action speeds up and the Status Bar appears in the Fast-forward position at the bottom of the screen. The pointer on the Status Bar moves to the right as you fast-forward the program. Speed Up: Press Fast-forward  one or two more times to incrementally increase the speed. Press it again and the program resumes playing at normal speed. Live TV: When you reach the end of the buffered program and catch up with the live broadcast, the Status Bar briefly indicates Live and the program automatically begins playing at normal speed. Recordings: When you reach the end of a recording, the Playback Status screen appears to give you the option to erase the recording. To exit from this screen and return to live TV, press Last , or press Channel Up  or Channel Down . (If the Playback Status screen remains displayed for more than 5 minutes, the DVR begins playing the recording from the beginning to prevent screen burn in.)

- To resume play at normal speed, press **Play** . The **Status Bar** indicates the Play mode and the program plays at normal speed.

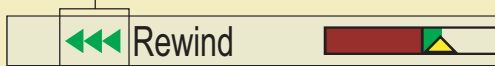
Status Bar Speed Indicator

Rewind or fast-forward in any of three speeds:

- The **first press** (◀ or ▶) increases the speed to **4 times** normal speed.
- The **second press** (◀◀ or ▶▶) increases the speed to **10 times** normal speed.
- The **third press** (◀◀◀ or ▶▶▶) increases the speed to **32 times** normal speed.



A green arrow (◀ or ▶) indicates how fast you are advancing or rewinding a program. Each time you increase the speed, another arrow appears.



Tip: Some TV programs display “scrolling” information across the bottom of the TV screen (for example, news and sports “tickers”). The DVR on-screen status bar and other graphics may cover up information scrolling on-screen. Pressing **Exit**  removes the status bar and any on-screen DVR graphics or banners.

Use Slow Motion

1. While watching live TV or while playing a recording at normal speed, press **Play**  once. The action slows.
2. To resume play in normal speed, press **Play**  again.

Watch Action Frame by Frame

Analyze sports events and other programs by watching the action frame by frame. When you watch frame by frame, you fast-forward or reverse the action one second at a time.

1. Press **Pause** . The action stops.
2. Fast-forward or reverse action one frame at a time by following these steps.

To Move Action	Press	Result
Back by one second		Each time you press Rewind  , action moves backward by one second.
Forward by one second		Each time you press Fast-forward  , action moves forward by one second.

3. To resume play at normal speed, press **Play** .

Catch Up With a Live TV Program

When you pause or rewind a live program, the program continues to be broadcast. You can continue watching the buffered program (delayed TV), or you can catch up with the live broadcast by pressing **Live** .

Note: The **Live**  key is inactive when you are playing back a recording.

Watch Two Programs At Once

Watch a soccer game and a basketball game at the same time by using the PIP feature. The DVR gives you the ability to use PIP even if your TV doesn't have PIP. This section provides instructions to:

- Turn the PIP feature on and off
- Change the channel of the PIP screen
- Move the location of the PIP screen
- Swap the main screen and the PIP screen

Tip: To find a key on the remote, open the foldout on the back cover of this guide to see the illustration of the remote.

Turn PIP On and Off

When you turn on the PIP feature, you can watch two channels at once. One channel appears as a full-screen image; the other channel appears as a small image within the full-screen image.

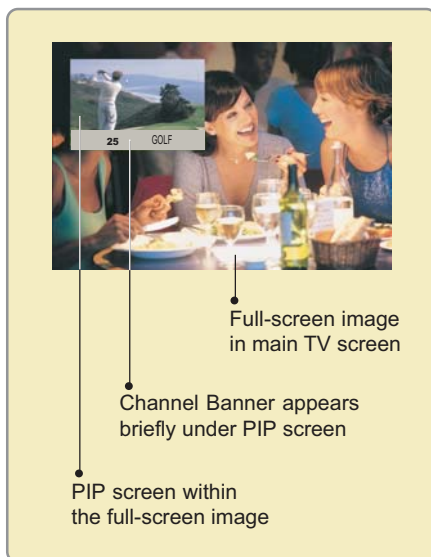
1. While watching a program, press **PIP On/Off** . The PIP screen appears within the full screen, and a channel banner appears briefly under the PIP screen.

Note: You hear the sound of only the program that is shown in the full screen.

2. To turn off the PIP screen, press **PIP On/Off**  again.

Notes:

- If you press **Info**  when the PIP feature is on, a channel banner appears for both screens. If either program is currently being recorded, its channel banner shows the Recording Now **REC** symbol.
- You can turn on the PIP feature only while watching TV in full-screen.



Activate PIP From the Program Guide

From the Program Guide, press **Exit**  or **Guide**  to close the Program Guide, and then press **PIP On/Off**  to activate PIP. You can only activate PIP from full-screen video.

Change the Channel of the PIP Screen

1. If the PIP feature is not on, turn it on. (See the previous page, "Turn PIP On and Off," for details.)
2. Press **PIP Channel Up**  or **PIP Channel Down**  to change the PIP channel.

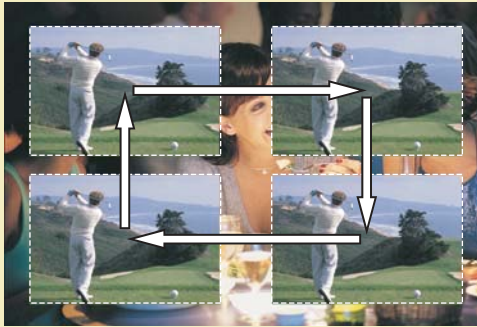
Note: You must press the PIP channel keys to change the channel of the PIP screen. Pressing the main **Channel Up**  or **Channel Down**  key changes the channel of the program that is shown in the main TV screen.

Move the Location of the PIP Screen

If the PIP screen blocks action in the main TV screen, move the PIP screen by pressing **PIP Move** .

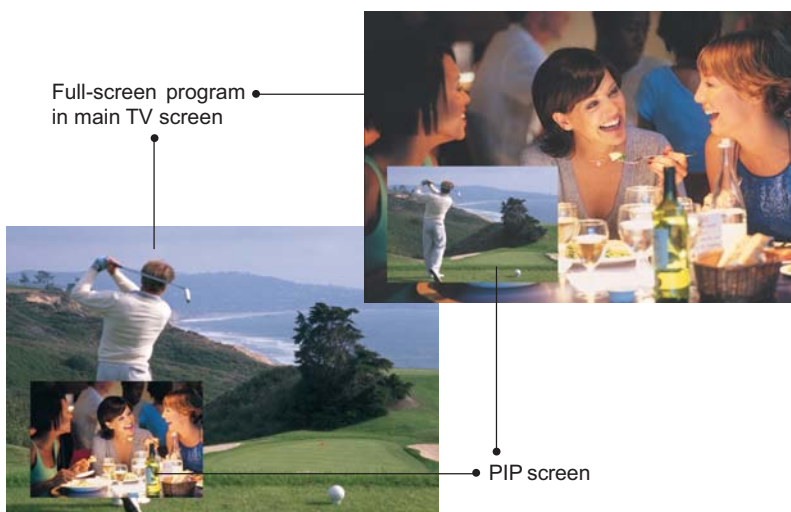
Possible Positions of the PIP Screen

Each time you press PIP Move , the PIP screen moves clockwise to the next corner of the main TV screen as shown here.



Swap the Main Screen and the PIP Screen

To move the full-screen program shown in the main TV screen to the PIP screen, press **PIP Swap** .



Recordings and the PIP Screen

If you are . . .

Recording the program in the PIP screen

Recording the program in the main TV screen

Recording the program in the PIP or the main TV screen

And you . . .

Turn off the PIP feature, the program continues to be recorded.

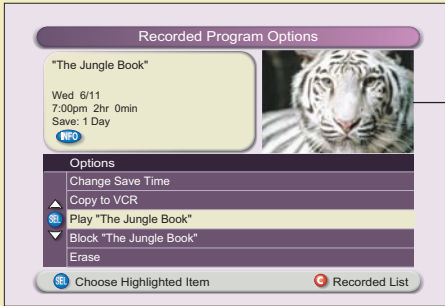
Have the PIP feature on, the recording does not capture the PIP screen in the recording. The recording shows only the program in the main TV screen.

Press **Info** , an information banner appears for both the PIP and main TV screens. (If a program is being recorded, the Recording Now **REC** symbol appears in the channel banner.) The recording does not capture the channel banner in the recording.

The PIP Screen and the Quarter Screen

The PIP screen and the Quarter screen look alike, but they are different. The Quarter screen is actually the main TV screen, but it has been reduced, as shown here, to fit within Explorer screens such as the Recorded Program Options screen.

To control the program in the Quarter screen, use the main keys on the remote.
To control the program in the PIP screen, use the PIP keys.



From the **Quarter screen**, you can use any of the main remote keys such as Pause, Rewind, Fast-forward, or Record.



From the **main TV screen**, you can use any of the main remote keys such as Pause, Rewind, Fast-forward, or Record.

From the **PIP screen**, you can use any of the dedicated PIP keys, such as Swap or Move.

Note: To control or record the program in the PIP screen, first swap it to the main TV screen. For details, see "Record Two Programs at Once" on page 28.

Record and Play Back Programs

You can use your DVR to record and watch your favorite programs whenever you want. This section provides instructions to:

- Record a program that you are watching live
- Record a single program or all episodes of a future program
- Record two programs at once
- Record a pay-per-view event
- Schedule future pay-per-view recordings
- Display a list of your recorded programs
- Play back a recording
- Display a list of programs that you have scheduled to be recorded in the future
- Cancel a scheduled recording
- Cancel a recording that is in progress

Tip: To find a key on the remote, open the foldout on the back cover of this guide to see the illustration of the remote.

Saving Your Recordings

Whether you record a program you are watching live or schedule a program to be recorded in the future, you have three ways that you can select how long to save the recording.

- **Use the default Save Time setting.** Using the default Save Time setting is the quickest way to save recordings because you don't need to select the save time each time you record a program. For details, see the "Save Time Setting" box on page 25.
- **Select the Save Time when you schedule a new recording.** For details, see the "Save Time Setting" box on page 25.
- **Change the Save Time after recording a program.** For details, see "Change the Save Time of a Recording You Have Saved" on page 44.

SAVE TIME

2 Days

7 Days

14 Days

Until I Erase

1 Day

Important: The DVR is not intended to be a long-term storage device. When saving recordings, consider the impact of the save time on your storage space. See the table on page 1 for more information about DVR storage capacity.

Tip: Reduce the length of your Save Time setting to maximize your storage space.

Record a Program That You Are Watching Live

When you press Record during a live program, the DVR records all of the program that you have buffered since you tuned to that channel.

For example, if you tune to a live, one-hour program at 8:00 p.m., and you press record at 8:40 p.m., when you press Record, the DVR saves the first 40 minutes and continues to record for the next 20 minutes, until the program is scheduled to end.

Save Time Setting

When the DVR leaves the factory, its default Save Time setting is set at 14 days. Using this setting, the DVR automatically saves each recording for 14 days. At the end of 14 days, the DVR erases the recording to make space for other programs you want to record. You can change the default setting from 14 days to 1, 2, or 7 days, or "Until I Erase," which means the recording is saved until you choose to erase it.

To change the default Save Time setting for all future recordings, see "Change the Default Save Time Setting for Future Recordings" on page 43.

SAVE TIME

2 Days

7 Days

14 Days

Until I Erase

1 Day

If you want to record a program that you are watching and save it according to your default Save Time setting, follow these steps.

1. Press **Record** . The Confirm Recording screen appears.
2. Choose **One Episode** or **All Episodes**.
3. Press  **Accept recording**. The DVR records the program using the settings you selected.



Selecting **Save Time** from the Confirm Recording screen saves a recording for the length of time you choose, instead of saving it for 14 days, which is the default setting.

Record a Program From the Program Guide

1. Press **Guide** .
2. Press the arrow keys to select a current or future TV program, and then press **Record** .
3. In the **Confirm Recording** screen, choose your recording options and press **A** . The recording program is highlighted in red in the Program Guide.



While the DVR records the program you are watching...

Feel free to do the following without affecting the recording:

- Continue to watch the channel while the recording is being made.
- Pause, fast-forward, or rewind the program.
- Change channels (as long as only one program is being recorded).
- Turn off the TV.
- Turn on the PIP feature.
- Display the Recorded List screen or the Program Guide.
- Playback a recording.



When recording, the **Record** LED turns on.



Record Multiple Episodes of a Future Program

To record programs when you are away or to record a program that will be shown in the future, start from the Program Guide.

1. If the Program Guide is not shown, press **Guide** . The guide appears and the program you are tuned to is selected.
2. Press the **Arrow** keys  to move through the listings in the guide and select the program you want to record. Or, press  **Browse By** and look for a program by title, channel, or theme.
3. Press **Record** . The Confirm Recording screen appears.
 - To record a single episode, choose "One episode" and the save time for that recording.
 - To record all episodes of a program, choose "All episodes" and how many episodes you want to save.

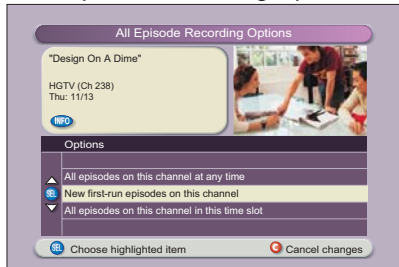
4. Press  **Accept Recording**. Select from one of the following options:
 - Are you recording **One Episode**? The DVR records the program using the settings you selected.

Result: After selecting your recording option, the Program Guide appears, and you may continue watching TV.

- Are you recording **All Episodes**? The All Episode Recording Options screen appears. Go to step 5.

5. Choose one of the following All Episode recording options:

- New first-run episodes on this channel
- All episodes on this channel at any time
- All episodes on this channel in this time slot



Note: This program is recorded any day that the program airs in this time slot.

6. Press **Select**  to save your settings.

Note: The "New first-run episodes on this channel" option is subject to availability in your area.

Result: After selecting your recording option, the Program Guide appears, and you may continue watching TV.

Save Latest Options

When scheduling a recording of all episodes, you can choose to save from 1 to 5 of the most recent episodes. Or, you can save every episode until you cancel the recordings or run out of storage space.

For example, let's say that you choose to save the 2 most recent episodes of a program that is broadcast every weeknight Monday through Friday. When the DVR records the program on Wednesday, it automatically deletes the program it recorded on Monday. So the Tuesday and Wednesday recordings are now saved. Then, on Thursday, the Thursday episode is recorded, the Tuesday recording is erased, and so on.

SAVE LATEST

4 Episodes

5 Episodes

All episodes

1 Episodes

2 Episodes

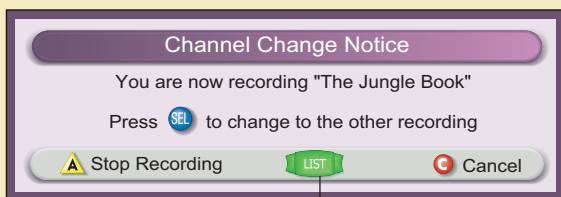
Record Two Programs at Once

The DVR gives you different ways to record two programs at once:

- Schedule two programs to record at the same time by following either of the procedures in “Record Multiple Episodes of a Future Program” on page 27.
- Record two programs live at the same time by recording one program and then tuning to another channel and recording a second program. For details on recording programs live, see “Record a Program That You are Watching Live” on page 25.
- When recording two live programs at the same time, you can watch them while they record using PIP, or you can play back a previously recorded program and watch it as well; but you cannot tune to another channel and watch a third program live.

Recording and Watching Programs

If, while recording two programs, you try to tune to another channel, the DVR displays a Channel Change Notice to let you know that you must stop a recording to change channels. For details, see “Cancel a Recording That Is in Progress” on page 30.



You can always press **List** [LIST] to access your recordings.

Record a Pay-Per-View Event

If your cable service provider allows, you can record pay-per-view (PPV) events. To record a PPV event, follow these steps:

1. Purchase the event *and wait for it to begin playing*.
2. Record the event just like any other live program. For details, see “Record a Program That You Are Watching Live” on page 25.

Schedule Future Pay-Per-View Recordings

Note: The “Schedule Future Pay-Per-View Recordings” option is subject to availability in your area.

1. If the Program Guide is not shown, press **Guide** [GUIDE].
2. Use the arrow keys to find the future PPV event you want to record. Press **Select** [SELECT] or press **Record** [REC]. The Future Programs Option screen is displayed.
3. Follow the on-screen instructions to purchase the event and schedule the event to record.

Note: If there is not enough hard disk space for recording the event, a **Not Enough Space** banner appears. Reduce the length of your Save Time setting, or erase recordings or copy recordings to a VCR tape to maximize your storage space.

Display a List of Your Recorded Programs

To display a list of your recorded programs, press **List** .

To exit from the Recorded List screen and display full-screen TV, press **List**  again or press **Exit** .

Recorded List Screen

Information about the recording that is selected appears here.

Programs that have been recorded, as well as those that are currently being recorded, appear in this list.

Note: Programs currently being recorded are highlighted in red (this option is subject to availability in your area).



Play Back a Recording

Play back your recordings whenever you want. You can even record one or two programs live while you play back any program you recorded earlier. However, you can play back only one recording at a time.

1. If the Recorded List screen is not displayed, press **List** . The Recorded List screen appears.
2. Press **Move Up**  or **Move Down**  to select the recording you want to watch.
3. Press **Select** . If you select the recording that you have most recently watched, the recording begins playing immediately. Otherwise, the Recorded Program Options screen appears with the option "Play [title of program]" selected.
4. Press **Select** . The recording begins playing. You can use the pause, rewind, fast-forward, or any other remote keys to navigate during playback.
5. When you press Stop (or when the recording finishes), the Playback Status screen appears. To exit from this screen and return to live TV, press **Last**  or press **Channel Up**  or **Channel Down** .

Note: If the Playback Status screen remains for 5 minutes, the DVR begins playing the recording to prevent screen burn in.

Play Back a Recording From the Program Guide

You can play back recordings from the Program Guide by selecting the DVR channel.

1. Press **Guide** .
 2. Use the arrow keys to choose the **DVR** channel and press **Select** .
- Note:** The DVR channel is a dedicated channel that allows you to play back recorded programs.
3. Use the arrow keys to choose the program you want to play back.
 4. Press **Select**  to play back the program.



Display a List of Programs You Have Scheduled To Be Recorded in the Future

1. If the Recorded List screen is not displayed, press **List** . The Recorded List screen appears.
2. Press  **Scheduled Recordings**. The Scheduled Recordings screen appears with a list of all the programs you have scheduled to record.

Scheduled Recordings Screen

If a program is currently being recorded, the Recording Now **REC** symbol appears in the Information area of the screen.

Programs that are scheduled to be recorded appear in this list along with any programs that are currently being recorded. Programs currently being recorded are highlighted in red (this option is subject to availability in your area).



Cancel a Scheduled Recording

You can cancel a scheduled recording at any time.

1. If the Recorded List screen is not displayed, press **List** . The Recorded List screen appears.
2. Press  **Scheduled Recordings**. The Scheduled Recordings screen appears.
3. Press **Move Up**  or **Move Down**  to select the recording you want to cancel.
4. Press **Select** . The Edit Scheduled Recording screen appears.
5. Press **B** **Cancel recording**. The Confirm Cancel screen appears and displays the question "Are you sure you want to cancel recording this program?"
6. Press  **Yes, Cancel**.

Cancel a Recording That Is in Progress

You can stop a recording in progress at any time. When you stop a recording, you can save what has been recorded or erase the entire recording.

1. If you are not watching the recording, tune to the channel that is being recorded.
2. Press **Stop** . The Stop Recording screen appears.
3. Press **Move Up**  or **Move Down**  to select either the option "stop and save" or the option "stop and erase."
4. Press **Select** . The Record indicator on the DVR LED display turns off.

Forget Which Channel You're Recording?

The DVR gives you three ways to find channels that are currently being recorded:

- Turn on the PIP feature and press **Info** . Both channel banners appear, and the Recording Now **REC** symbol is displayed if one or both of the channels is currently recording.
- Display the Recorded List screen and, as you move up or down the list, look in the Information area of the screen for a recording with the Recording Now **REC** symbol. Programs currently being recorded are also highlighted in red (this option is subject to availability in your area).
- Display the Program Guide and look for a program that is highlighted in red.

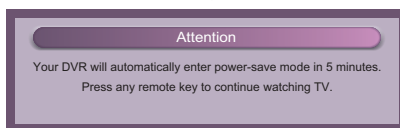
If you want to view the program that is being recorded, select the program either from the **Recorded List** screen or from the Program Guide, and then press **Select** .

Use Power-Save Mode

To maximize the life of your DVR, you should power-down the DVR when it is not in use. Simply press  and then  on your remote, or press **Power** on the front panel of the DVR. The Power light turns off; but, because the DVR is still plugged in, your scheduled recordings still occur.

Between 1:00 a.m. and 6:00 a.m. daily, your DVR will automatically enter Power-Save mode unless you press a key on the remote or a key on the DVR front panel at least once every 2 hours. In Power-Save mode, the set-top is powered-down, but all scheduled recordings still occur. When the DVR enters Power-Save mode, your TV displays a black screen. **Note:** Your cable service provider controls whether or not the automatic Power-Save mode is activated on your set-top.

At 1:10 a.m., the DVR displays a 5-minute warning banner, indicating that the DVR is about to enter power-save mode. When the banner appears, do one of the following:



- To allow the DVR to enter Power-Save mode, do nothing when the warning banner appears. The DVR will automatically power-down. After your DVR powers down, you must press  and then  on your remote, or press **Power** on the front panel of your DVR to start watching TV again.
- To prevent the DVR from entering Power-Save mode, simply press any key on your remote or any key on the front panel of the DVR when the warning banner appears. The DVR will not attempt to enter power-save mode again until another 2 hours of inactivity has passed.

Protect Your Recordings

To extend the life of the DVR and optimize DVR performance, turn **Off** the DVR each night before going to bed.

When the DVR is powered **Off** (and plugged into an active outlet), all scheduled recordings are performed automatically – and your recordings are protected.

Turning off your DVR also resets the Parental Control feature so that it turns on automatically whenever the DVR turns on. Turning off the DVR and turning it back on is the easiest way to turn on Parental Control for all the programming you have chosen to block. For more information on this feature, see "Block Programs With Parental Control" on page 32.

Manage Programs and Recordings

You can manage programs and recordings in the following ways:

- Keep others from watching a program or recording by using the Parental Control and Block features
- Restrict the viewing of programs and recordings in your MR-DVR system
- Find out how much storage space is used by recordings
- Maximize your storage space
- Automatically erase your oldest recordings
- Copy recordings to a VCR tape
- Change the default Save Time for future recordings
- Change the Save Time of a recording that you have saved
- Erase a recording

Tip: To find a key on the remote, open the foldout on the back cover of this guide to see the illustration of the remote.

Block Programs With Parental Control

You can prevent children or anyone else from watching specific programs by using both the Block and the Parental Control features:

- First, select programs you want to block. (For details, see “Selecting Programs To Be Blocked on the DVR” next in this section.)
- Then, turn blocking on by turning on the Parental Control feature. (For details, see “Turning Parental Control On and Off” on page 34.) When programs are blocked in this manner, they can be watched only after entering a 4-digit personal identification number (PIN).

Selecting Programs To Be Blocked on the DVR

You can program the DVR to block programs by channel, rating, time of day, or any combination of these methods as described in the following steps.

Note: The DVR will record the blocked programs, but the DVR *blocks the playback* of the recording unless you enter a valid Parental Control personal identification number (PIN).

1. Press **Settings**  twice. The General Settings menu appears.
2. Press **Move Up**  or **Move Down**  to select one of the following options:
 - **Block:Channels** blocks all programs on a specific channel.
 - **Block:Rating** blocks all programs according to the rating assigned to the program. Some examples of rating assignments include NR, TVY, G, PG, PG-13, TV14, TVMA, and R.
 - **Block:Time New** blocks all programs broadcast during a specific time.
3. Press **Select** . A PIN Entry screen appears.
4. Press the numeric keys to enter your 4-digit Personal Identification Number (PIN). A menu for the option you selected in step 2 appears.

5. Press **Move Up**  or **Move Down**  to select the channel, rating, or date you want to block. Or, if your cable service provider allows, you may select a channel by pressing the numeric keys on your remote.
6. Press **Select** . The DVR indicates that the channel or rating is blocked. If you are blocking a broadcast time, go to step 8. Otherwise, go to step 7.

Note: The DVR indicates a blocked channel or blocked rating in the following ways:

 - **Blocked channels:** The channel number is listed in the right column on the General Settings menu, and a Closed Lock  symbol appears in the CHANNELS column next to the channel that you selected.
 - **Blocked ratings:** A Closed Lock  symbol appears in the RATING column next to the rating that you selected.
7. Continue this process of selecting the channels or ratings you want to block. When all channels and ratings that you want to block have a **Closed Lock**  symbol next to them, press  **Accept** so that the DVR accepts your blocks.
8. In the START column on the General Settings menu, change the time shown to the time you want the block to start by following this process:
 - a. First, press **Move Left**  or **Move Right**  to select the one you want to change (hours, minutes, and A.M. or P.M.).
 - b. Then, press **Move Up**  or **Move Down**  to change the setting. Or, if your cable service provider allows, you may select a setting by pressing the numeric keys on your remote.
 - c. Repeat this process to change each setting as necessary.
 - d. When the correct START time is shown, press **Select** . The time you want to start blocking programs appears in the START column and the cursor moves to the STOP column.
9. In the STOP column, change the time shown to the time you want the block to end by following this process:
 - a. First, press **Move Left**  or **Move Right**  to select the one you want to change (hours, minutes, and A.M. or P.M.).
 - b. Then, press **Move Up**  or **Move Down**  to change each setting. Or, if your cable service provider allows, you may select a setting by pressing the numeric keys on your remote.
 - c. Repeat this process to change each setting as necessary.
 - d. When the correct STOP time is shown, press  **Accept**. The DVR accepts the start and stop times you have entered.
10. Turn on the Parental Control feature so that the DVR blocks the programming you selected. For details, see "Turning Parental Control On and Off" on the next page.

Removing Blocking From Programs

To remove blocking from programming, follow the same steps in the previous procedure: “Selecting Programs To Be Blocked on the DVR.” The process you follow to remove blocking is essentially the same as the process for selecting programs to be blocked. When you remove blocking from programs, the Closed Lock  symbol is removed to indicate that the programming is no longer selected for blocking. The feature is automatically activated as a precaution when you press the power button on the front of the DVR.

Turning Parental Control On and Off

When you turn on the Parental Control feature, you can watch blocked programs only after entering your 4-digit Parental Control PIN.

Important: The Parental Control feature is automatically activated as a precaution when you press the Power button on the front of the DVR.

1. If you have not already done so, select the programming you want to block. See “Selecting Programs To Be Blocked on the DVR” on page 32.
2. Press **Settings** . The Quick Settings menu appears.
3. Press **Move Up**  or **Move Down**  to select the “Turn OFF/ON Parental Control” option.
4. Press **Select**  to change the Parental Control setting to **ON** or **OFF**. The PIN Entry screen appears.
 - *When Parental Control is on*, programs that you have selected for blocking can be viewed only by those who know your PIN.
 - *When Parental Control is off*, programs that you have selected for blocking can be viewed by anyone.
5. Press the numeric keys on the remote and enter your 4-digit PIN. The PIN Entry screen disappears.

Keeping Track of What Is Blocked

The following symbols are used to help you keep track of the programming and recordings that are blocked on a set-top. These symbols also indicate whether Parental Controls are on or off for a set-top.

Blocking With Parental Controls ON



This symbol indicates that a recording or program is selected for blocking and that the **Parental Control** feature is **ON**.

When the Parental Control feature is on, programming or recordings selected for blocking are displayed only after viewers enter the set-top's Parental Control PIN.

Blocking With Parental Controls OFF



This symbol indicates that a recording or program is selected for blocking and that the **Parental Control** feature is **OFF**.

When the Parental Control feature is off, programming or recordings selected for blocking are displayed immediately. (Viewers do not need to enter the Parental Control PIN to watch the programming or recording.)

Block Recordings With Parental Control

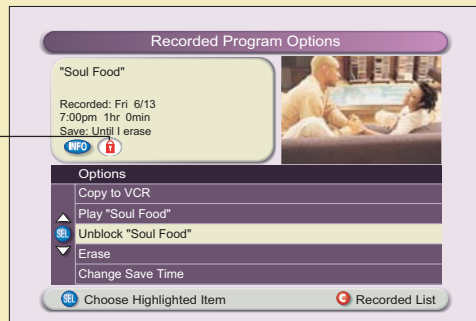
You can keep others from watching a recording by using the Block feature. When using this feature, keep in mind that you can block only recordings that you are not watching. This feature is useful if children also use the DVR and you do not want them to watch certain recordings.

Note: To block a program that is scheduled to be recorded, block the program from the General Settings menu. (For details, see “Block Programs With Parental Control” on page 32.) The DVR records the program, but the recording can be watched only after entering your 4-digit Parental Blocking PIN.

1. If the Recorded List screen is not displayed, press **List** . The Recorded List screen appears.
2. Press **Move Up**  or **Move Down**  to select the recording you want to block.
3. Press **Select** . The Recorded Program Options screen appears.
4. Press **Move Down** . The option “Block [title of program]” is selected.
5. Press **Select** . The PIN Entry screen appears.
6. Press the numeric keys to enter your 4-digit PIN. The PIN Entry screen disappears, and the Closed Lock  symbol appears in the Information area of the Recorded List screen.

Recorded Program Options Screen

After you block a recording, the Closed Lock  symbol appears in the Information area to indicate that the recording can be played only by entering a PIN.



Playing Back Blocked Recordings

You can watch a blocked program using either of the two methods described here. (For details on how to use the Parental Control feature to block programs and recordings, see “Turning Parental Control On and Off” on page 34.)

When you select “Play [title of program],” the Parental Control PIN Entry screen appears. Entering your 4-digit PIN in this screen turns off Parental Control. When Parental Control is off, *all* recordings and programs can be viewed.

PIN Entry

Enter your PIN to turn OFF Parental Control and ALLOW viewing of All programs.

Clear PIN Entry
 Cancel

Recorded Program Options

"Soul Food"

Recorded: Fri 6/13
7:00pm- 1hr 0min
Save: Until I erase

Options

- Copy to VCR
- Play "Soul Food"
- Unblock "Soul Food"
- Erase
- Change Save Time

Choose Highlighted Item
 Recorded List

When you select “Unblock [title of program],” the Program PIN Entry screen appears. Entering your 4-digit PIN in this screen turns off blocking *only* for this recording. Other recordings and programs continue to be blocked.

PIN Entry

This program is blocked.
Enter your PIN to unblock.

Clear PIN Entry
 Cancel

Tip: Erase or copy recordings to a VCR tape after watching them to maximize your storage space.

Control the Viewing of Programs and Recordings in Your MR-DVR System

With the MR-DVR system, you can record your favorite programs on the 8300 MR-DVR server (MR-DVR server), and then use your other non-DVR Scientific-Atlanta digital set-tops (client set-tops) to play back and control recordings stored on the MR-DVR server.

Notes:

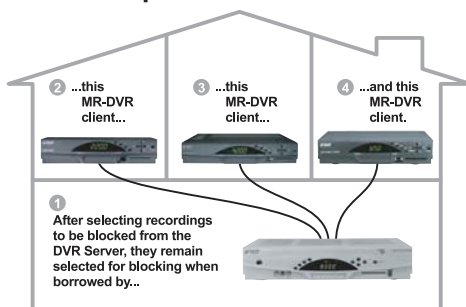
- The MR-DVR feature is only available on the 8300 MR-DVR models.
- The Scientific-Atlanta digital set-tops must be Explorer 2000 Rev 3, or later, standard-definition set-top boxes.

This section describes how you can set up your MR-DVR system to restrict, or block the viewing of certain programs and recordings to specific set-tops. If you do not plan to block programming or recordings, you may skip this section.

Refer to the *Getting Started With the Multi-Room™ DVR System* guide, part number 4003869, for more information about your MR-DVR system.

Using Parental Controls on the Client Set-Tops

If you block a recording on the MR-DVR server, you can activate Parental Controls in each room to keep other client set-tops from watching that recording. Each client set-top has its own independent Parental Control setting. You must set it the way you want it to work in every room by pressing **Settings**  to open Quick Settings and then choosing to turn Parental Controls ON or OFF.



Some key points to remember about Parental Controls:

- For existing recordings on the MR-DVR server, any recording can be manually blocked by choosing the **Block** option when selecting it from the Recorded List. Once manually blocked on the MR-DVR server, and as long as Parental Controls are activated on the client set-top, the same recording will be automatically blocked on the client set-top. Later, if you manually unblock the recording on the MR-DVR server, it will automatically unblock the same recording on all the client set-tops.
- For future scheduled recordings, any rating, channel, or time slot can be set for blocking within General Settings on the MR-DVR server. These blocking settings do *not* automatically carry over to the client set-top even if the Parental Controls are activated on the client set-top. The client set-top must block the same future programming (by channel, rating, or time) within its General Settings so the blocking takes effect.
- Unblocking a recording on one client set-top will *not* unblock the same recording on other client set-tops or on the MR-DVR server.

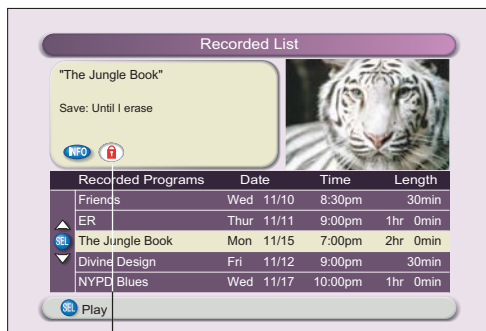
Use one of the following steps to activate Parental Controls on either the MR-DVR server or on the client set-top.

- Press the front panel **Power** button, or press **Cable**  and then **Power**  on the remote to power off the set-top. The next time the client set-top is powered on, all the blocking you set up will take effect.
- Activate the Parental Controls in the Quick Settings menu (see page 34).

Set Up the Parental Control Feature on MR-DVR Client Set-Tops

After you have decided how to restrict viewing for the set-tops in your home, set up a Parental Control PIN for each client set-top. All of the set-tops in your system need a Parental Control PIN in order to view blocked programs. If you do not plan to block programming or recordings, you do not need to set up a Parental Control PIN.

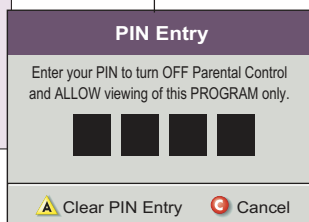
On the Client Set-Top:



The **Closed Lock** symbol indicates that a recording is blocked and can be played only by entering a Parental Control PIN.

When selecting a recording that the MR-DVR server has blocked, users must enter a Parental Control PIN.

Note: Turning off parental control here *does not* unblock this recording on other TVs.



Selecting a Parental Control PIN

When selecting a number for the Parental Control PIN, keep the following in mind:

- The PIN must contain four digits.
- You may use a PIN that is unique to each MR-DVR system set-top in your home, or you may use the same PIN for all MR-DVR system set-tops.
- You may use a PIN that is the same or different from the pay-per-view PIN.

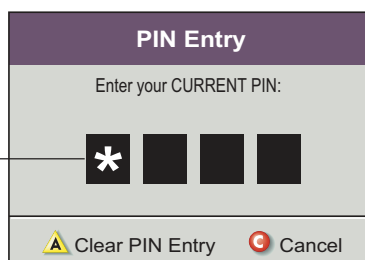
After you have selected a 4-digit number to use as a Parental Control PIN, set up the PIN by following the steps on the next page. See "Setting or Changing the Parental Control PIN."

Setting or Changing the Parental Control PIN

Each MR-DVR server and client set-top leaves the factory with a Parental Control PIN of 0000. Follow these instructions to change the factory-set PIN to your own PIN or to change your own PIN at any time in the future.

1. While aiming the remote at the front of a set-top, press **Settings**  twice. The General Settings menu appears.
2. Press **Move Up**  or **Move Down**  to select **Block:PIN**.
3. Press **Select** . The options for Block: PIN appear.
4. Press **Move Up**  or **Move Down**  to select the option **Change**.
5. Press **Select** . A PIN Entry screen appears and prompts you to enter the current PIN.
6. Enter the current PIN by performing one of the following tasks:
 - If you are changing the PIN for the first time, press the numeric keys to enter 0000 (the number of the factory-set PIN). The PIN Entry screen prompts you to enter your new PIN.
 - If you are changing your current PIN, press the numeric keys to enter your current PIN. The PIN Entry screen prompts you to enter a new PIN.
7. Press the numeric keys to enter your new PIN. The PIN Entry screen prompts you to re-enter your new PIN for confirmation.
8. Press the numeric keys to enter your new PIN again. The General Settings menu appears.
9. To close the General Settings menu, press **Exit** .

When entering a PIN in the **PIN Entry** screen, an asterisk appears each time you press a number key. Displaying an asterisk instead of the number itself keeps others from learning your PIN and lets you know that the set-top has accepted the number.



Note: For more information about turning the parental control feature on and off, see “Turning Parental Control On and Off” on page 34.

Find Out How Much Recording Space Has Been Used

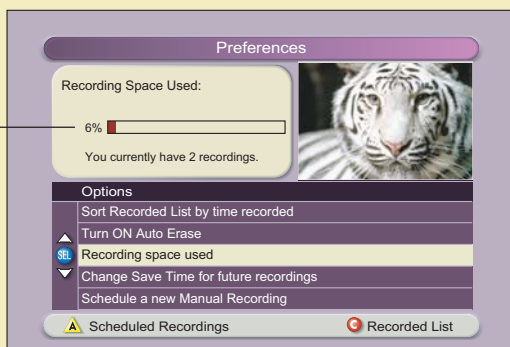
The Recording Space Used feature shows both the percentage of space currently used and lists the number of recordings stored.

1. Press **List** . The Recorded List screen appears.
2. Press **B**  to display the **Preferences** screen. The Information area displays the Storage bar, which shows the percentage of recording space currently used.
3. To close the **Preferences** screen, press **Exit** .

Recording Space Used

In this graphic, the Storage bar indicates that a small portion (6%) of the DVR storage space is being used.

If the Storage bar indicates that over 90% of the space is being used, consider some of the suggestions in the “Maximize Your Storage Space” section for more storage options.



Maximize Your Storage Space

The DVR is not intended as a long-term storage device. Make the most efficient use of your storage space by following these guidelines.

- Set your default Save Time setting to 14 days or less. Setting it to “Until I Erase” causes the storage space to fill up more quickly. (For details, see “Change the Default Save Time Setting for Future Recordings” on page 43.)
- After you watch a recording, decide to either erase it or keep it permanently by transferring it to a VCR tape. (For details, see “Erase a Recording” on page 44, or “Copy Recordings From Your DVR to a VCR Tape,” on page 42.)
- Turn on the Auto Erase feature. This feature automatically erases the oldest recordings whenever additional space is needed to record a new program. However, this feature does not erase recordings that have a Save Time of “Until I Erase.” These recordings remain until you decide to erase them. (For details, see “Automatically Erase Oldest Recordings,” on the next page.)
- Connect your 8300 DVR to an optional external Serial ATA (SATA) hard disk drive for expanded recording capability. For details, see “Recording to a SATA Hard Disk Drive (Optional)” on page 45.

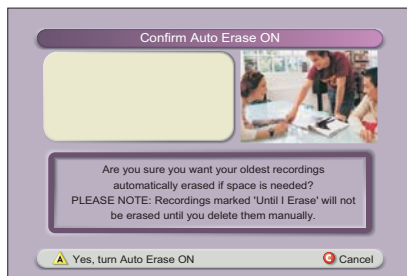
Note: SATA connectivity is only available on the 8300 DVR models.

Automatically Erase Oldest Recordings

To ensure that there is enough storage space for new recordings, turn on the Auto Erase feature. When Auto Erase is on, oldest recordings are automatically erased one by one until there is enough space to record your new programs.

Note: Any recordings that have a save time of “Until I Erase” are not automatically erased.

1. Press **List** . The Recorded List screen appears.
2. Press **B Preferences**. The Preferences screen appears.
3. Press **Move Up**  to select “Turn ON Auto Erase.”
4. Press **Select** . The Confirm Auto Erase On screen appears and displays the question “Are you sure you want your oldest recordings automatically erased if space is needed?”.
5. Press . The option now shows “Turn OFF Auto Erase” and the Information area displays the current status of the Auto Erase feature.



Copy Recordings From Your DVR to a VCR Tape

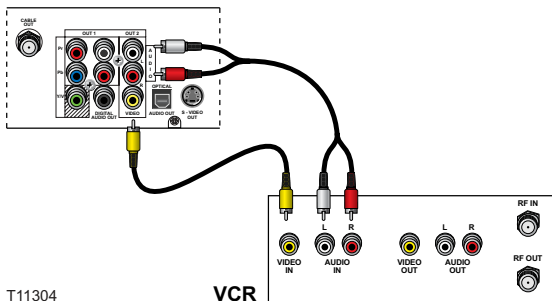
The Copy to VCR feature lets you copy recordings from your DVR to a VCR tape. Verify that the **OUT 2** outputs are connected to your VCR inputs.



WARNING: Avoid electric shock. Unplug all electronic devices before connecting or disconnecting any device cables to the DVR.

Note: This graphic shows the 8300HD DVR back panel layout. Other DVR back panel layouts will vary.

Connecting to your VCR using the **OUT 2** outputs allows you to watch or record another program or even change channels in the Main screen, without affecting the copy in progress.



Notes:

- The program that you are copying appears in the *PIP window*. You can turn the PIP feature off and on without affecting the copy in progress. A “Copying to VCR” banner displays for 3 seconds when you turn the PIP feature on.
- It is possible to record live TV directly to a VCR tape (instead of your DVR) by connecting the main OUT 1 outputs directly to the VCR inputs. However, we recommend that you use the method shown here to record programs to a VCR tape.

Copy a Recording to a VCR Tape

1. Connect the VCR to the **OUT 2** connection on the back of the DVR.
2. Make sure that a tape is in your VCR and that the VCR is set to record.
3. Press **List** . The Recorded List screen appears.
4. Press **Move Up** or **Move Down** to select the recording you want to copy to the VCR. Make sure to select a program that is not currently being recorded.
5. Press **Select** . The Recorded Program Options screen appears.
6. Press **Move Up** to select “Copy to VCR.”
7. Press **Select** . The Copy to VCR screen appears.
8. Make sure your VCR is properly connected to your DVR outputs, and press **Record** on your VCR.
9. Press **Start copy**. The recording begins copying to VCR tape. The Recorded List displays the VCR symbol for the recording that is copying to VCR.

Note: You can watch the copying in progress through the PIP.

Change the Default Save Time Setting for Future Recordings

When the DVR leaves the factory, its default Save Time setting is set to 14 days. Using this setting, the DVR automatically saves each recording for 14 days. At the end of 14 days, the DVR erases the recording to make space for other programs you want to record. You can change this setting from 14 days to 1, 2, or 7 days, or to “Until I Erase.”

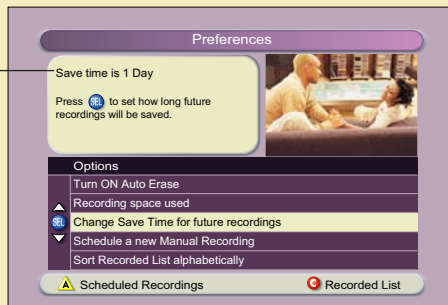
Important: When you change the default Save Time setting, it affects all future recordings, not the currently recorded programs.

Use the following steps to change the default Save Time setting.

1. If the Recorded List screen is not displayed, press **List** . The Recorded List screen appears.
2. Press **B**  **Preferences**. The Preferences screen appears.
3. Press **Move Up**  or **Move Down**  to select “Change Save Time for future Recordings.”
4. Press **Select** . The options for “Save Time” appear.
5. Press **Move Up**  or **Move Down**  to select your desired Save Time.
6. Press **Select** . The “Save Time” options disappear, the Preferences screen appears, and the new default Save Time setting appears in the Information area of the screen as shown here.

Preferences Screen

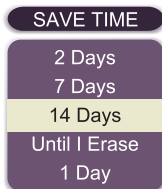
After you select a new default Save Time, the DVR displays your new selection in the Information area.



Change the Save Time of a Recording You Have Saved

After recording a program, you can change how long the DVR saves the recording.

1. If the Recorded List screen is not displayed, press **List** . The Recorded List screen appears.
2. Press **Move Up**  or **Move Down**  to select the recording whose Save Time you want to change.
3. Press **Select** . The Recorded Program Options screen appears.
4. Press **Move Up** . The option “Change save time” is selected.
5. Press **Select** . The Change Save Time screen appears.
6. Press **Move Up**  or **Move Down**  to select the new Save Time.
7. Press **Select** . In the Information area of the screen, the message “One moment please” appears, and the new save time displays on the Recorded List screen.



Erase a Recording

Erase a recording and permanently remove it from the DVR. Erasing programs that you no longer want to watch creates space to record and store other programs. If the DVR becomes full, some programs may be partially saved or not saved at all.

1. If the Recorded List screen is not displayed, press **List** . The Recorded List screen appears.
2. Press **Move Up**  or **Move Down**  to select the recording you want to erase.
3. Press **Select** . The Recorded Program Options screen appears.
4. Press **Move Down**  twice. The option “Erase” is selected.
5. Press **Select** . The Confirm Erase screen appears and displays the question “Are you sure you want to erase this recording?”
6. Press  **Yes, erase**. The message “One moment please” appears in the Information area of the screen, and the Recorded List screen displays with the program no longer showing in the list.

Recording to a SATA Hard Disk Drive (Optional)

On the 8300 DVR models, you have the option to use a Serial ATA (SATA) hard disk drive for expanded recording capability. Contact your cable service provider for a list of approved hard drive models for use with the 8300 DVR models.

Notes:

- The SATA feature is not fully implemented on all 8300 DVRs at this time.
- SATA connectivity is not available on Explorer 8000 DVRs.

Important: You cannot choose between recording to the internal DVR hard drive or recording to the SATA drive. If a SATA drive is connected to the DVR, a program is automatically recorded to the hard drive with the most available space. Recordings are not split across both the internal and external drives.

Note: All recordings stored on the SATA drive can only be played back on the DVR originally connected to the SATA drive. For instance, you cannot record programs to the SATA drive, remove the drive, and then reconnect the drive to a different DVR for playing back programs.

For instructions for connecting a SATA hard disk drive to the DVR, refer to the connectivity guide for your DVR model:

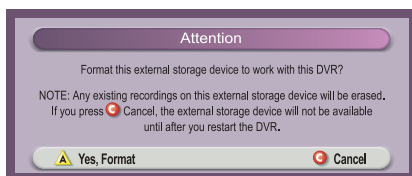
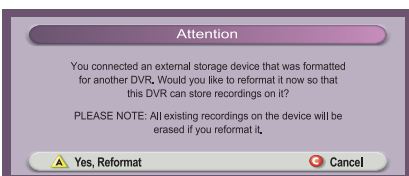
- *Connecting the Explorer® 8300™ Digital Video Recorder*, part number 4003987
- *Connecting the Explorer® 8300HD™ Digital Video Recorder*, part number 4003986



WARNING: Avoid electric shock. Unplug all electronic devices before connecting or disconnecting any device cables to the DVR.

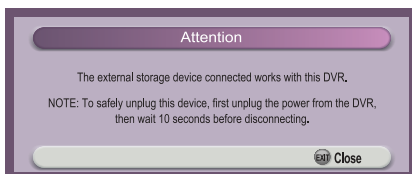
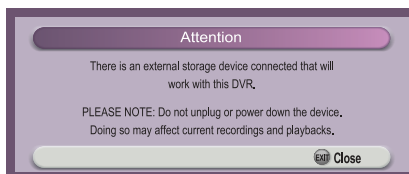
Connecting the SATA Device to the DVR

When a new SATA device is detected by the DVR unit, one of the following banners appears, indicating that you need to format the device to work with the DVR.



Follow the on-screen instructions to format the device.

Because your SATA drive was formatted to work with your DVR unit, should you need to disconnect, then reconnect the SATA hard disk drive to your DVR, one of the following banners appears, indicating that the external device was properly connected.



Press **Exit** to close the banner.

Important: Do not power down the SATA drive while the DVR is powered on. Doing so may result in lost or stopped recordings.

Troubleshooting the SATA Drive

In the event that you encounter problems when connecting or disconnecting your SATA hard disk drive, use the following warning banners to troubleshoot any drive issues.



WARNING: Avoid electric shock. Unplug all electronic devices before connecting or disconnecting any device cables to the DVR.

If the SATA drive is improperly disconnected, one of the following warning banners appears.

Attention: The external storage device has been disconnected from the DVR.

Attention

The external storage device has been disconnected from the DVR.

NOTE: Reconnecting this external storage device will require a DVR restart. This device should only be disconnected after the power is unplugged from the DVR.

Close

Attention

You connected an external storage device that was improperly disconnected. The DVR must be rebooted before you can use this device. Do you wish to reboot now?

PLEASE NOTE: All current recordings will be interrupted.

Yes, reboot the DVR now

Cancel

Attention

The DVR must be restarted before this external storage device can be used. Restart now?

NOTE: Restart may take 2 minutes. Recordings will resume after restart. If you press Cancel, the external storage device will not be available until you disconnect and then re-connect the cable from the port labeled "SATA" on the DVR rear panel.

Yes, restart the DVR now

Cancel

If you improperly disconnected the SATA drive from your DVR, then attempt to reconnect the drive to your DVR, one of the following warning banners appears. Follow the on-screen instructions to restart the DVR.

If the power or data cables for the SATA drive are unplugged from the DVR, a warning banner appears. Check the DVR to make sure the power and data cables are properly plugged in.

Attention

The external recording device is not functioning properly.

Check to make sure the power and data cables are plugged in properly.

Close

If the DVR cannot read the SATA drive, a warning banner appears. Follow the on-screen instructions to format the SATA drive.

Attention

The external storage device appears to be corrupted.

Format this external storage device?

NOTE: Existing recordings on this external storage device will be erased. If you press Cancel, the external storage device will not be available.

Yes, Format

Cancel

Find Answers to Frequently Asked Questions

If you have questions or encounter difficulties controlling live TV, recording programs, playing recordings, or displaying the PIP screen, this section may provide the information you need. If not, see page 53, “Get More Information or Assistance.”

Questions About the DVR

What happens if the DVR temporarily loses power?

The recordings that were saved prior to the power loss are preserved, except, of course, those recordings that were automatically deleted because their Save Time was reached. Future recording schedules are also preserved. You miss only the recordings that were scheduled to be made while the power was out.

Where can I find details on installing the DVR?

Access Scientific-Atlanta’s Explorer eClub Web site at **www.scientificatlanta.com/explorerclub**. It contains documentation on a number of topics, including installation and setup. You need the model number of the DVR and your email address to access the eClub Web site.

Why doesn’t the DVR respond when I press the keys on the remote?

Your remote may not be in the Cable mode. To use any of the features provided by the DVR, including the PIP feature, the remote must be in Cable mode. See the box on page 5 for details.

I want to move the DVR to a new location. How do I do this?

After disconnecting the DVR from your TV and other components, reconnect it by following the instructions in your DVR installation guide. If you can’t find your copy of this guide, log on to Scientific-Atlanta’s Explorer eClub Web site at **www.scientificatlanta.com/explorerclub**. It contains documentation on a number of topics, including installation and set up. You need the model number of the DVR and your email address to access the eClub Web site.

Questions About Controlling a Live Program or Recording

Can I remove the DVR on-screen graphics and banners?

Yes. Some TV programs display “scrolling” information across the bottom of the TV screen (for example, news and sports “tickers”). The DVR on-screen status bar and other graphics may cover up information scrolling on-screen. Press **Exit**  to remove any on-screen graphic or banner.

How far back can I rewind a program?

It depends upon whether the program is a live or a recorded program. You can rewind all recorded programs to the beginning of the recording.

The situation is different for live programs. If you have watched a live program for less than 1 hour, you can rewind back to the point that you started watching the channel. If you have watched a live program for longer than 1 hour, you can rewind up to the last hour that you’ve watched. For details on how the DVR allows you to rewind, fast-forward, pause, or record live TV, see page 16.

Can I pause, rewind, or fast-forward a program in the PIP screen?

No. Keys such as pause, rewind, and fast-forward control only the program shown in the main TV screen. They also control the small *Quarter screen* that appears on DVR screens like the Recorded List screen and the Program Guide. See page 23 for details on the main TV screen and the Quarter screen.

Can I pause, rewind, or fast-forward a program shown in the upper right corner of Explorer screens?

Yes. The small screen shown in the upper right corner of Explorer screens (the *Quarter screen*) is actually the main TV screen displayed in a smaller size. It is reduced to fit within Explorer screens. Keys such as pause, play, rewind, and fast-forward control the main TV screen, whether the screen fills the monitor of your TV or whether it is reduced to fit in an Explorer screen.

Questions About Watching Two Programs at Once

If a program is being recorded in the PIP screen and I turn off the PIP feature, will this stop the recording?

No. The DVR continues to record the program even if you turn off the PIP feature.

What if my TV doesn't have the PIP feature?

That's no problem. You can still use the PIP feature because the DVR provides the PIP feature, not your TV.

Questions About Recording and Playing Back Programs

If I've been tuned to a program since it started, do I have to rewind to the beginning to record the entire program?

No, if you have been tuned to the program since its beginning, just press **Record** from any point in the program to record the entire program. Recording automatically stops when the program ends.

Can I record the program that is shown in the PIP screen?

You can record a program that is shown in the PIP screen, but you must swap the program to the main screen first. For details, see "Record Two Programs at Once" on page 28.

Can I record a pay-per-view event?

Yes, if you have been authorized by your cable service provider. After you purchase the event and wait for it to begin playing, you can record it just like any other live program. For details, see "Record a Pay-Per-View Event" on page 28.

Can I record video-on-demand (VOD) programs?

No.

Can I play back more than one recording at the same time?

No. You can play only one recording at a time.

Can I recover a recording that was erased from the DVR?

No. There is no way to recover a recording that has been erased from the **Recorded List** screen. You can copy programs to a VCR tape or extend the length of time a program is saved, though. For details, see “Copy Recordings From Your DVR to a VCR Tape” on page 42 or “Change the Save Time of a Recording You Have Saved” on page 44.

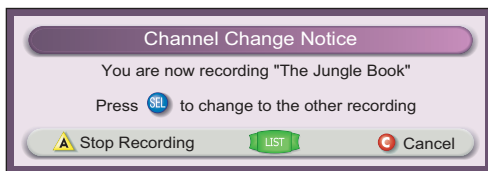
Can I use PIP while copying a program to my VCR?

When copying a program to a VCR, the PIP screen displays what is being copied to the VCR. You cannot use PIP to watch another program while copying a program to a VCR, but you can change channels in the main screen.

Can I record two programs at the same time and watch a live program on another channel?

No. If you are recording two programs and try tuning to another channel, the DVR displays the message shown here. But you can watch either of the two channels you are recording, or you can play back a recording and watch it.

If, while recording two programs, you try to tune to another channel, the DVR displays a **Channel Change Notice** to let you know that you must stop a recording to change channels. For details, see “Cancel a Recording That Is in Progress” on page 30.

**What happens if a sports event that I scheduled to record goes into overtime?**

The DVR cannot determine whether a live program will end at its scheduled time. If there is a chance that the event you are recording may continue past its scheduled time, you can allow for this uncertainty by extending the stop time on the Confirm Recording screen.

Do my Parental Controls in the Program Guide carry over to DVR recordings?

Yes. If you block programs by channel or rating in the **General Settings** menu, recordings of these programs also are blocked. They will be recorded, but to play them back, you must enter your 4-digit PIN. For details, see the “Playing Back Blocked Recordings” box on page 36.

Can I erase part of a recording?

No. The DVR erases the entire recording.

At the end of the program playback, the DVR started playing the recording again from the beginning. Why?

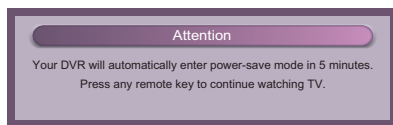
To prevent screen burn in, the DVR prevents graphics and a still image from being displayed for too long. The Playback Status screen displays when a recording ends. If this screen is shown for 5 minutes, the DVR begins playing the recording again from the beginning.

When the DVR is in Power-Save mode, will the programs that I have scheduled to record still be recorded?

Yes. Any scheduled recordings will occur when the DVR is in Power-Save mode. Between 1:00 a.m. and 6:00 a.m. daily, your DVR automatically enters Power-Save mode unless you press a key on the remote or a key on the DVR front panel at least once every 2 hours. In Power-Save mode, the set-top is powered down, but all scheduled recordings still occur. When the DVR enters Power-Save mode, your TV displays a black screen. Also, the DVR turns on all of your parental controls whenever you power down the DVR.

Note: Your cable service provider controls whether or not the automatic Power-Save mode is activated on your set-top.

At 1:00 a.m., the inactivity clock begins. If you do not press a remote button or front panel key between 1:00 a.m. and 1:10 a.m., the DVR displays a 5-minute warning banner, indicating that the DVR is about to enter Power-Save mode.



- To allow the DVR to enter Power-Save mode, do nothing when the warning banner appears. The DVR automatically powers down. After your DVR powers down, you must press **CBL**  and then **Power**  on your remote, or press **Power** on the front panel of your DVR to start watching TV again.
- To prevent the DVR from entering Power-Save mode, simply press any key on your remote or any key on the front panel of the DVR when the warning banner appears. The DVR does not attempt to enter Power-Save mode again until another 2 hours of inactivity has passed.

I watched two 30-minute programs on the same channel, but when I pressed Record, the DVR recorded only the most recent program. Why didn't it record both programs since it buffered both programs?

It recorded the most recent program because it was the live program at the time that you pressed Record. The DVR does buffer all programs on a channel for up to one hour. However, when you are watching live programming, the DVR assumes that you want to record a specific program, not a specific channel. For that reason, the DVR records only the program that is currently being broadcast at the time that you press Record.

For example, let's say that you tune to a channel for 45 minutes and during that time watch a 30-minute "Friends" episode, and then you watch the first 15 minutes of "Seinfeld." You can rewind to the beginning of "Friends," but if you press Record, the DVR records only "Seinfeld." The DVR records only "Seinfeld" because "Seinfeld" is the live program at the time you pressed Record.

Why did the DVR record only part of a program?

If the beginning of the program is missing, you may have started recording the program after it began. For an explanation of how live TV is recorded, see page 16.

If the end of the program is missing, the DVR may have reached its storage capacity, the program may have continued past its scheduled time, or you may have manually stopped the recording.

If there is a chance that the program you are recording may continue past its scheduled time, you can allow for this uncertainty by extending the stop time on the Confirm Recording screen.

To determine why the entire program was not recorded, display the Recorded List screen and select the program in question. The Information area in the upper left of the Recorded List screen indicates one of the following reasons:

- User stopped recording early.
- Reached storage capacity.

If the DVR has reached its storage capacity, you must make space to record other programs. To make more space on the DVR:

1. Erase recordings that you no longer want or, copy recordings you want to keep to a VCR tape and then erase them from the DVR. For details, see “Erase a Recording” on page 44 or “Copy Recordings From Your DVR to a VCR Tape” on page 42.
2. Turn Auto Erase On. Your oldest recordings are erased automatically if space is needed. For details, see “Automatically Erase Oldest Recordings” on page 41.

Questions About the MR-DVR Client Set-Top**Can an MR-DVR client set-top record a program?**

No. Programs must be set up to record on the MR-DVR server.

Why can't the MR-DVR client set-top play recordings whose titles are gray in the Recorded List?

The recording may be a high-definition program or someone may have erased the recording on the MR-DVR server. You can find out if the recording has been erased by closing the Recorded List and then displaying it again. If the recording is not listed when you display the Recorded List for the second time, then it has been erased. If the recording is still listed in gray, the recording was made from a high-definition program and can only be played back on the 8300HD MR-DVR server set-top.

Questions About Watching, Recording, and Playing Back HD Programs**Are local TV stations broadcasting in HDTV?**

Many local TV stations are transmitting digital signals. However, transmitting a digital signal does not mean transmitting an HDTV signal. Most stations, however, once they begin broadcasting in digital are offering HD programs from their parent station, such as CBS, ABC, NBC, Fox, WB, UPN, or PBS.

How can I find out which programs are broadcast in HD?

To find out which programs are broadcast in HD, log on to the Web site of your cable service provider. Many cable service providers list their channel lineups on their Web sites and indicate the channels that are broadcast in HD.

What are the differences between standard TVs and HDTVs?

- HDTVs can be 1/3 wider than traditional TVs, although some HDTVs have a traditional (4:3 aspect ratio).
- HDTV uses a much finer resolution to create the TV picture—1125 lines for HDTV as compared to 525 lines used in standard TV (SDTV). This means that the resolution for HDTVs can be up to 1920 x 1080 pixels as compared with 720 x 480 for SDTVs.
- In the United States, HDTV is always broadcast with digital signals. SDTV is currently broadcast in both digital and analog. (However, HDTV and digital SDTV do not use the same digital signal.)
- Generally, all HDTV-ready monitors or integrated HDTV sets are capable of supporting an SDTV 480i or 480p signal. Not all HDTV monitors support both 720p and 1080i HDTV signals. For instance, some plasma displays support only 720p.

I have a wide-screen HDTV and am tuned to a channel that is listed as an HD channel, but the picture is not displayed in a wide-screen format. What's wrong?

The program may not be an HD program. Not all stations broadcast HD programs. Because non-HD programs do not use a wide format, the picture does not fill the width of the screen. To fill the space, the DVR automatically places bars on the sides of non-HD programs. You can change this display to one that removes the bars and fills the screen with the picture. For more information about how pictures are formatted and displayed on an HDTV, refer to the *Explorer HDTV Setup Wizard User's Guide*, part number 4003114.

I'm concerned about burn in. Can I remove the bars that display when watching certain programs on my HDTV?

Yes. You can remove the bars and enlarge or stretch the picture to fill the screen. If you have a standard-screen HDTV, you might try removing the bars by displaying the program in a different picture format.

For more information about how pictures are formatted and displayed on an HDTV, refer to the *Explorer HDTV Setup Wizard User's Guide*, part number 4003114.

Burn in or "ghosting" occurs when an image is displayed on a TV for an extended period of time. Through time, the image becomes permanently burned into the screen, leaving a faint image of it on the screen. Some kinds of HDTVs are more susceptible to burn in than others. For other ways to reduce burn in, refer to the user's guide that came with your HDTV.

Get More Information or Assistance

This guide is designed to help you become familiar with the tasks you use most often when controlling live programs or recordings, recording programs, playing recordings, and displaying the PIP. It does not provide comprehensive information about the DVR. For example, you won't find instructions on how to install the DVR in this guide.

If you haven't found the answer to a question you have, you can make use of the following resources.

Frequently Asked Questions

The "Find Answers to Frequently Asked Questions" section of this guide provides answers to questions about the capabilities of the DVR and how it operates.

Online Documentation or the Explorer eClub

If you have questions after looking through the "Find Answers to Frequently Asked Questions" section of this guide, check the Scientific-Atlanta Web site at **www.scientificatlanta.com**. It contains online customer support on a number of topics, including installation and setup. You'll also find the latest information about the DVR there, including updates to frequently asked questions.

For additional information about your DVR, Scientific-Atlanta invites you to join the Explorer eClub. This online club provides news and information about the DVR. Access the Explorer eClub on the Internet at the following Web address:

www.scientificatlanta.com/explorerclub

To join and access the Explorer eClub, you need to enter the model number of your DVR and your email address.

Customer Support

If you have questions after looking through the "Find Answers to Frequently Asked Questions" section of this guide and the Explorer eClub, contact your cable service provider.

Information to Provide When Calling for Assistance

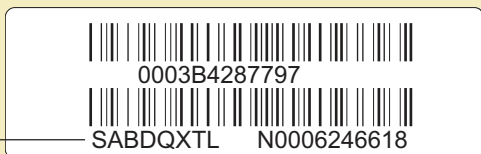
To best answer your question, your cable service provider may ask you for the following information:

- **Product name and number:** To find the model name and number, look on the front of the DVR. The model name (Explorer) and model number (8000, 8000HD, 8300, or 8300HD) are printed there.
- **Serial number:** To find this number, look on the back of the DVR for a label that is similar to the example shown below.

To Find the DVR Serial Number

To find the serial number, look on the back of the DVR for a label that is similar to the following example. The serial number begins with SA and is located in the lower left corner of the bar code.

Sample Serial Number



Index

B

- Blocking programs, methods of, 32
- Blocking recordings, 35
- Browse By feature, 14
- Buffer, explanation of, 2
- Buttons. *See* Remote control keys

C

- Cable mode, 5
- Canceling
 - recordings in progress, 30
 - scheduled recordings, 30
- Changing
 - channel of PIP screen, 21
 - channels from Program Guide, 13
 - number of days to save recording, 43, 44
- Channel banner, displaying, 20
- Channel buffer, *See* Buffer
- Channel Change Notice** screen, 28
- Channels, selecting to be blocked, 32
- Closed lock symbol, 33, 34, 35, 38
- Confirm Recording** screen, 25
- Connecting the DVR, 4
- Copying recordings to VCR tape, 42
- Current recordings, finding, 29

D

- Date, search programs, 15
- Default Save Time setting
 - changing for future recordings, 43
 - explanation of, 25
 - recording with, 25

Displaying

- Browse By options, 14
- channel banner, 20
- list of recordings, 29
- list of scheduled recordings, 30
- Parental Control setting, 34
- PIP screen, 20
- Program Guide, 13
- programs to block, 32
- Recorded List** screen, 29
- Scheduled Recordings** screen, 30

E

- Erasing
 - portions of a recording, 49
 - recordings, 41, 44, 49
 - recovering, 49
- Explorer eClub, about, 53
- Explorer screens, information in, *inside of back cover*

F

- Fast-forwarding
 - live programs, 17
 - PIP screen, 23, 48
 - Quarter screen, 23, 48
 - recordings, 17
 - speeds, 18
- Finding programs. *See* Program Guide
- Frame-by-frame viewing, 19
- Future programs
 - recording, 27
 - selecting from Program Guide, 15

G

- General Settings menu
 - adjusting HD picture, 8-11
 - audio output, 5
 - blocking programs, 32

H

HDMI Interface, 4, 5

HDTV

display, 8-11

recording programs, 24

storage of programs, 1

High-definition programs. *See* HDTV

I

Information area on Explorer screens,
inside of back cover

Installation, instructions for, 47

Instant replay, 17

K

Keys. *See* Remote control keys

L

List key, 28, 29, 30

List of recordings, displaying, 29

Live TV, 2, 16

Lock symbols

Closed Lock, 33, 34, 35, 38

Open Lock, 34

Loss of power, 47

M

Main TV screen

PIP screen, 20, 22, 23

Quarter screen, 23

keys used to control, 22, 23

stretching, 7

swapping with PIP screen, 22

zooming, 7

MR-DVR

controlling viewing, 37

parental controls, clients and, 38

O

Online information, Explorer eClub, 53

Open lock symbol, 34

Overtime in sporting events and
other programs, recording of, 49

P

Padlock symbol. *See* Lock symbols

Parental Control feature

blocking programs, 32

blocking recordings, 35

how to use, 34

playing blocked recordings, 36

turning on and off, 34, 37

watching blocked recordings, 36

Pausing

live programs, 16

PIP screen, 23, 48

Quarter screen, 23, 48

recordings, 16

Pay-per-view events, recording, 28,
46, 48

Picture-in-Picture feature. *See* PIP
feature; PIP screen

Picture

adjusting display, 8

changing darkness of bars in, 11

setting format of, 9, 10

PIN Entry screen, 36, 38, 39

PIP feature

explanation of, 20

turning on or off, 20

TV requirements for, 48

PIP screen

changing channel, 21

displaying, 20

fast-forwarding in, 23, 48

keys used to control, 23

main TV screen, 20

moving location, 21

pausing, 23, 48

Quarter screen, 23

recording, 22

rewinding, 23, 48

swapping with main TV screen, 22

Playback Status screen, exiting from, 29

Playing
and recording simultaneously, 48
blocked recordings, 36
recordings, 29

Power loss, 47

Power-Save mode, 31, 50

Program Guide

Browse By feature, 14
changing channels from, 13
displaying, 13
finding programs, 13-15
playing recordings from, 29
searching for programs, 14, 15
selecting a program, 13
selecting future programs from, 15

Programs

blocking with Parental Control, 32
fast-forwarding, 17
pausing, 16
recording, 24-28
removing blocking from, 34
rewinding, 17
selecting to be blocked, 32

Protect recordings, 31

Q

Quarter screen

controlling, 23
definition of, 23
fast-forwarding, 23, 48
pausing, 23, 48
PIP screen, 23
rewinding, 23, 48

Quick Settings

adjusting picture format, 8
parental control on and off, 34, 37

R

Recorded List screen, displaying, 29

Recording

See *also* Recordings

all episodes of a program, 27
blocked programs or channels, 49
changing channels, 28
fast-forwarding, 17
from the PIP screen, 48
future programs, 27
high-definition programs (HDTV), 1, 24
impact on storage space, 1, 24, 40
pausing, 16
pay-per-view events, 28, 46, 48
playing simultaneously, 49
programs that continue past scheduled times, 49
rewinding, 17
Save Time setting, 24-25, 43
single programs, 25, 26
stopped, 49
turning off TV, 26
two programs at once, 28
two programs at once and watching a live program, 49
video-on-demand, 48
watching TV, 26
while away, 27
while watching, 25, 26
with the default Save Time setting, 24, 25
without the default Save Time setting, 25, 43

- Recordings
 - blocking, 35
 - copying to VCR tape, 42
 - displaying list of, 29
 - erasing, 41, 44, 49
 - finding current, 29
 - in progress, canceling, 30
 - pausing, 16
 - playing, 29
 - playing when blocked, 36
 - protecting, 31
 - recovering erased, 49
 - rewinding, 17
 - saving, 24
 - scheduled, 30
 - watching, 28, 29, 36
- Record light, 26
- Recovering erased recording, 49
- Remote control device
 - placing in Cable mode, 5
 - preparing to use with TV and Explorer DVR, 5
- Remote control keys
 - # key, *inside of foldout*
 - A, *inside of foldout*
 - All keys, *inside of foldout*
 - arrows, *inside of foldout*
 - AUX, *inside of foldout*
 - B, *inside of foldout*
 - C, *inside of foldout*
 - Cable (CBL), 5
 - Channel Down, 18
 - Channel Up, 18
 - Exit, *inside of back cover*
 - Fast-forward, 18
 - Favorites (FAV), *inside of foldout*
 - Guide, 13-15
 - Info, 20
 - Instant Replay, 17
 - Last, 18
 - List, 28, 29, 30
 - Live, 19
 - Menu, *inside of foldout*
 - Mute, *inside of foldout*
 - non-responsive keys, 47
 - numeric keys, *inside of foldout*
 - Page Down, *inside of foldout*
 - Page Up, *inside of foldout*
 - Pause, 16
 - PIP, 20-23
 - Play, 16-19
 - Power, 5
 - Record (REC), 25, 26, 27, 28
 - Rewind, 17
 - Select, *inside of foldout*
 - Settings, 5, 8, 9, 11, 32, 34, 37
 - Stop, 30
 - TV, *inside of foldout*
 - VCR, *inside of foldout*
 - Video Source, *inside of foldout*
 - Volume Down, *inside of foldout*
 - Volume Up, *inside of foldout*
- Rewinding
 - from PIP screen, 23, 48
 - from Quarter screen, 23, 48
 - live programs, 17
 - recordings, 17
 - speeds, 18

S

- SATA drive
 - connecting to DVR, 45
 - recording programs to, 45
 - troubleshooting, 46
- Save Latest options, 27
- Save Time setting, changing, 43, 44
- Saving recordings, 24
 - methods of, 40
 - permanently. *See* Copying recordings to VCR tape
 - storage space, 1, 24, 40
- Scheduled recordings
 - canceling, 30
 - displaying list of, 30
- Serial ATA. *See* SATA drive
- Serial number, locating, 53
- Setup Wizard
 - advanced setup, 7
 - easy setup, 7
 - starting, 6
- Simultaneous recording, 49
- Slow motion, 19
- Speed indicator on Status Bar, 18
- Status Bar, 16-18
- Storage space
 - allotment of (in hours), 1, 24
 - HD programs, 1
 - managing, 40
- Swap PIP and main TV screens, 22
- Support, 53

T

- Troubleshooting
 - loss of power, 47
 - non-responsive remote control keys, 47
 - pay-per-view events, 48
 - program partially recorded, 51
 - SATA drive, 45-46
- TV connections and DVR, 4

V

- VCR connections and DVR, 42
- VCR tape, copying recordings to, 42
- Video-on-demand, 48

W

- Watching recordings, 28, 29, 36
- Web access to more information, Explorer eClub, 53
- Wizard. *See* Setup Wizard

Z

- zooming, 7

Quick Tips

-  Press to display the last channel you were last watching.
-  While in normal Play mode, press once while watching live TV or a recording to see the program in slow motion. Press a second time to resume normal play.
-  Press to remove any Explorer screens or banners and display full-screen TV.
-  Press to display the Information banner. This banner provides information about the channel you are watching. It can also help you confirm that you are recording a particular channel. When a channel is being recorded, the **Recording Now**  symbol appears in the banner.
-  For HDTVs, press to remove the letterbox or pillarbox bars. Press once to stretch the display and remove the bars. Press a second time to enlarge (zoom) the display and remove bars. Press a third time to return the display to the normal setting (letterbox or pillarbox).
-  then  Press **Pause** then **Fast Forward** to step through single frames going forward. Press **Pause** then **Rewind** to step through single frames in reverse.
-  then 

Explorer Screens

This illustration explains the format of a typical Explorer screen, showing where to look for key information and how selections are presented. Although each screen contains information and options that are specific to a particular task, most of the screens are very similar to the example screen shown here.

The **Information area** displays information about the program you have selected from this screen or about the program you are tuned to.

The **Selection area** displays items you can select. Here, for example, are recorded programs that you can select.

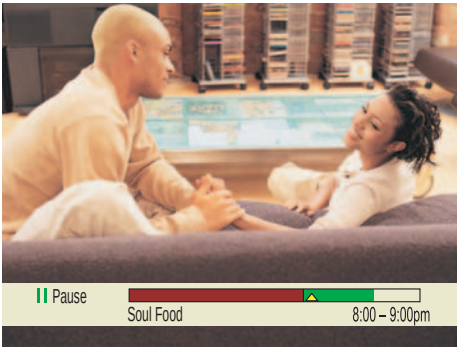


The **Quarter screen** shows the program of the channel you are currently tuned to or the recorded program you are watching.

The **bar** at the bottom of each screen displays selections that you can make from the screen.

See all of your favorite programs

When you're watching a favorite program and the phone rings, the Explorer DVR lets you pause the program and rewind it to play the part you missed. You can also fast-forward through portions you don't want to watch.



Never miss your favorite programs

Record and save your favorite TV programs to watch later. Record a single episode or all episodes of your favorite programs.

When two programs are on at the same time, record one program and watch the other, or record both and watch them later. You can even record two programs and play back a third.

If you have advanced features, like video-on-demand, use one of these features while you record a program.

Make the most of your time

Watch two programs at once. Use Picture-in-Picture to watch a golf tournament on the main screen and a soccer game on the small, Picture-in-Picture screen. If you miss a big play in the soccer game, swap it to the main screen, rewind the play, and watch the action again.



Get more out of your TV.

AllTouch® Remote Control

Use the main keys to control the program shown in the main TV screen or quarter screen and to make selections in Explorer screens like the Program Guide and the **Recorded List** screen.

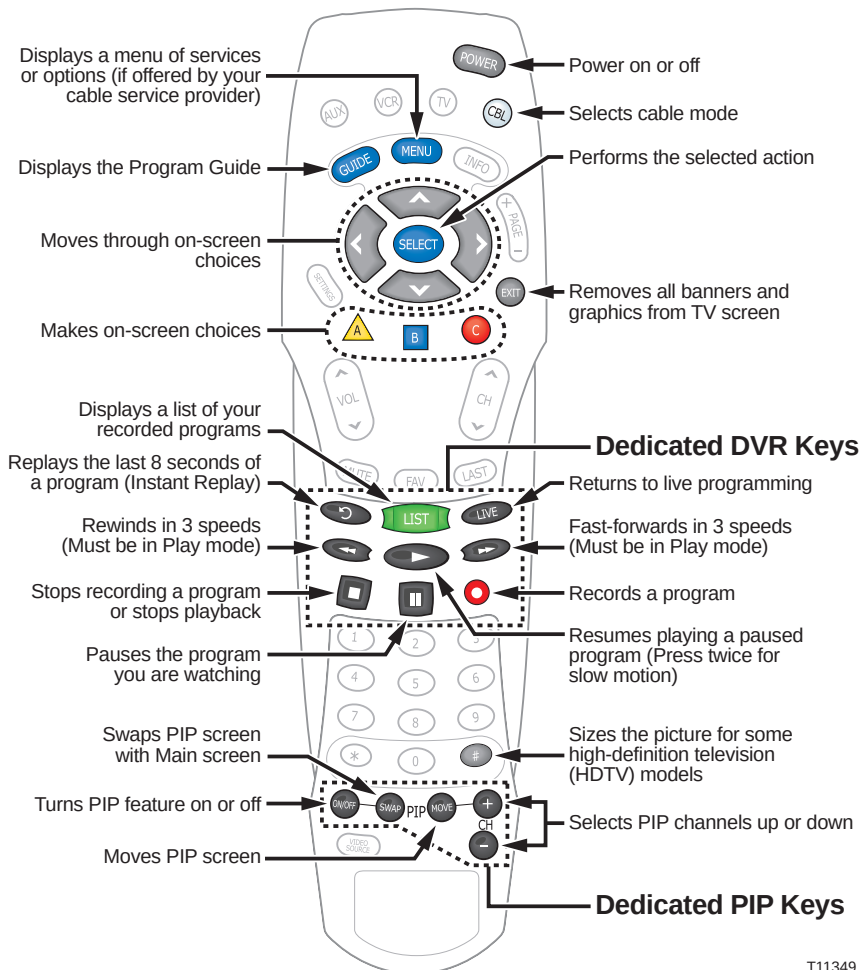
Use the dedicated Picture-in-Picture keys to control the Picture-in-Picture feature.

Important: Your remote must be set to Cable Mode (CBL) to access the DVR features. To place the remote in the Cable mode, press **Cable** . For more information, see page 5 of this guide.

For descriptions of the other key functions, refer to the user's guide for your remote control model:

- AT8400™ AllTouch Remote Control User's Guide, part number 749219
- AT8450™ AllTouch Remote Control User's Guide, part number 4001707
- AT8550™ AllTouch Remote Control User's Guide, part number 4006383

AllTouch AT8400 Remote Control





**With the Explorer DVR
you can record your favorite programs
and then play back your recordings
whenever you want.**

**The built-in digital video recorder and
Picture-in-Picture feature give you**

**complete control,
convenience,
and choice**

when watching TV.



**Scientific
Atlanta**

© 2005 by Scientific-Atlanta, Inc. All rights reserved.

AllTouch, Explorer, Scientific-Atlanta and the Scientific-Atlanta logo are registered trademarks of Scientific-Atlanta, Inc. 8000, 8000HD, 8300, 8300HD, AT8400, AT8450, AT8550, and Multi-Room are trademarks of Scientific-Atlanta, Inc.

Dolby is a registered trademark of Dolby Laboratories.

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

All other trademarks shown are trademarks of their respective owners. Product and service availability subject to change without notice.

Scientific-Atlanta, Inc., 5030 Sugarloaf Parkway, P.O. Box 465447, Lawrenceville, GA 30042

www.scientificatlanta.com

January 2005 Printed in USA

4003870 Rev A